



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Superfund 401 Church Street Nashville, TN 37243-1538

May 23, 1995

Robert P. Morris State Project Officer North Superfund Branch Waste Management Section U. S. EPA Region IV 345 Courtland Street Atlanta, Georgia. 30365

Dear Mr. Morris:

Enclosed are 2 Preliminary Assessments and 1 Site Investigation Prioritization. The

Preliminary Assessments are:

Site	EPA Id	State Id	State
			Recommendation
Flat Top Mountain Dump	TN0000271955	33-650	Site Inspection
Cumberland Lumber Co.	TND004040663	89-506	NFRAP

Site Investigation Prioritization is:

Van Water and Rogers	TND987768561	75-527	NFRAP

At this time there are 2 PA's, 5 SI's, and 2 ESI's are still owed to you.

Sincerely

John T. Weakley

Site Assessment Coordinator

CJ Washing

PRELIMINARY ASSESSMENT

NARRATIVE REPORT

CUMBERLAND LUMBER COMPANY

McMINNVILLE, WARREN COUNTY, TENNESSEE

CERCLIS No. TND004040663

TENNESSEE FILE No. 89-506

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Red 185

Prepared for the TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION **DIVISION OF SUPERFUND (TDSF)**

in cooperation with

WASTE MANAGEMENT DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

DATE: May 1, 1995

Reviewed By

NFOIDE A TORE

Brenda K. Apple

Prepared By

John Kizer

John Kinger 5/1/95 john & Electer Branda K-Apple 51-95

TABLE OF CONTENTS

Secti	on		Page
1.0 1.1	INTRODUCTION Objectives		1
1.2	Scope of Work		1
2.0	SITE CHARACTERIZATION		2
2.1	Location		2
2.2	Site Description/Operational Hist	ory	2 2 2 4
2.3 2.4	Offsite Waste Characteristics		4 4
3.0	GROUNDWATER PATHWAY	?	5
3.1	Hydrogeologic Setting		5
3.2	Groundwater Targets		6
3.3	Groundwater Conclusions		6
4.0	SURFACE WATER PATHWA	Y	6
4.1	Hydrologic Setting		6
4.2	Surface Water Targets		7
4.3	Surface Water Conclusions		7
5.0	SOIL EXPOSURE & AIR PAT	HWAYS	7
5.1	Physical Conditions		7
5.2	Soil and Air Targets		8
5.3	Soil Exposure and Air Pathway C	onclusions	8
6.0	SUMMARY AND CONCLUSION	ONS	8
REF	ERENCE LIST		10
Numi	per F	IGURES	Page
Figure	e 1 Site Location Map (Topo)	2 A
Figure			2B

ATTACHMENTS

APPENDIX A - References APPENDIX B - PA Scoresheets (Separate Cover) REPORT:

Preliminary Assessment

Narrative Report

SITE:

Cumberland Lumber Company

McMinnville, Warren County, Tennessee

CERCLIS NO.:

TND004040663

TN FILE NO.:

89-506

PREPARED BY:

John Kizer, Environmental Specialist

Tennessee Department of Environment and Conservation

Division of Superfund (TDSF)

DATE:

05/01/95

1.0 INTRODUCTION

The Tennessee Division of Superfund (TDSF), under cooperative agreement with the U.S. Environmental Protection Agency (EPA), conducted a Preliminary Assessment (PA) at the Cumberland Lumber site in McMinnville, Warren County, Tennessee. This investigation was performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA).

1.1 Objectives

The purpose of this investigation was to collect information concerning conditions at Cumberland Lumber sufficient to assess the threat posed to human health and the environment and to determine if additional investigation under CERCLA/SARA or other authority is necessary.

1.2 Scope of Work

The objectives were achieved through the completion of specific tasks which included:

- review of available file information;
- a comprehensive target survey;
- interviews with representatives of local public agencies;
- and on/off site reconnaissance.

2.0 SITE CHARACTERIZATION

2.1 Location

Cumberland Lumber Company (the Site) is located at Red Road and Sparta Street, on the eastern side of McMinnville. The geographic coordinates are 35° 41' 15" N latitude and 85° 45' 45" W longitude (Ref. 25). To reach the Site exit I-24 at Murfreesboro and take highway 70S East. Upon arriving at McMinnville take the 70S East Bypass toward Sparta. After approximately 2.5 miles take a right onto Red Road. Follow Red Road until it dead ends into Sparta Street. The Site is located to the northeast (Ref. 1).

McMinnville is characterized by a temperate climate. Summers are hot and humid with highs in the upper 80's while winters are relatively short and mild with lows in the 20's. Average year round temperature is 58.5°. Normal annual precipitation is 53.30 inches (Refs. 3,).

2.2 Site Description/Operational History

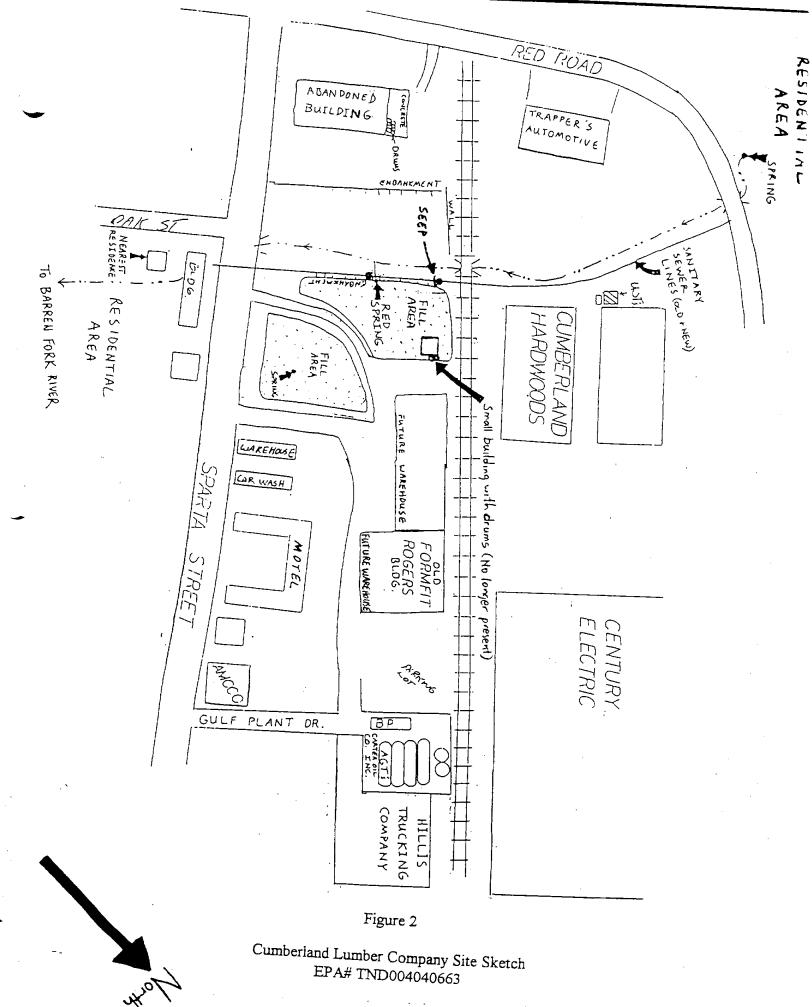
The Site is located in an industrial/commercial/residential area of McMinnville near the corner of Red Road and Sparta Street. A railroad track runs along the northwest side of the Site. The area is completely open on all sides. An unnamed intermittent stream begins northwest of the property and flows southward under the railroad tracks and across the Site. In general, the surrounding topography slopes toward this stream from both sides. Two sanitary sewer lines, one old and one new, parallel the stream on the eastern side (Ref. 2).

Potential problems at the Site are a contaminated spring (Referred to as "Red Spring") and eight drums being stored in the open. The drums are located on the corner lot owned by Cumberland Company. The spring is located near the boundary between the Cumberland Lumber lot and the lot to the northwest owned by Billy Harper and John Parker (Refs. 6,18,22).

Cumberland Lumber Company has produced hardwood strip flooring since 1945. Their active facility is located north of the railroad tracks on Red Road. Although they own the 2.7 acre lot at the corner of Red Road and Sparta Street they do not use it. The property has one abandoned building that is used by the county Emergency Management Agency for storage. The former owner of the property was A.P. Rich (Refs. 2,5,14,22,26).

Formfit Rogers, a manufacturer of women's apparel, operated a business on the adjoining 6.53 acre lot from 1941 until 1995 (Refs. 14,24). Until 1992 the property was owned by Genesco Incorporated. In 1992 Charles and Joyce Maybery became the owners and in 1994 Billy Harper and John Parker purchased the lot (Ref. 22). There are presently two vacant buildings on the property which are being renovated into warehouses for lease/rent/sale. It appears they have been making further improvements to the property by filling in the low areas on the southwest side of the lot. The dirt fill material has covered the location where Red Spring used to emerge (Refs. 2,24). In 1994 there was another old storage building just





southwest of the larger buildings that had several drums of unknown contents stored in it (Ref. 4). The building and drums are now gone. There is a spring located in the fill area near Sparta Street that was not contaminated in January 1994 (Ref. 2).

A complaint of a fuel odor from Red Spring in January 1994 lead to an investigation by the Tennessee Division of Underground Storage Tanks (Ref. 15). They found the spring to be contaminated with hydrocarbons and solvents which gave it a bright red/orange color. This may explain the origin of it's name. Red Spring is located approximately 300 feet northwest of Sparta Street near it's junction with Oak Street. It emerged from the bottom of a embankment and flowed approximately 40 feet southeast into the intermittent stream. The upper 15 feet of the spring is now covered by dirt fill from the Formfit Rogers property (Refs. 2,4). After a rainy period in April 1995 Red Spring was not flowing; hence, it may now be plugged by the fill material. However, a small seep northwest of Red Spring near the railroad tracks was observed to have a sheen. The seep originates just northeast of a sanitary sewer manhole cover at the bottom of the ridge formed by the fill material (Ref. 24).

During the January 1994 investigation by the Tennessee Division of Superfund, eight drums in poor condition were discovered on the north side of the abandoned building on the Cumberland Lumber lot. The drums are sitting on a concrete pad and are believed to contain roofing tar and water. They are on the opposite side of the embankment from Red Spring and are not considered a source for it's contamination (Ref. 2).

The possible sources of contamination in Red Spring include:

1. The city sanitary sewer is directly adjacent to the spring and the seep. A new sewer line was put in next to the old one, which was left in place, approximately four years ago. Red Spring may not have existed before this time. The sewer lines may be leaking contaminants directly into Red Spring or contaminants may follow the lines due to increased permeability of the material surrounding the pipes. Sanitary sewer lines upgradient from the site serve a large area to the north and west which is mostly residential (Refs. 2,21).

A similar situation existed at a spring in McMinnville's Riverfront Park. Sanitary sewer lines run adjacent to the spring and it too was stained orange from iron bacteria and iron deposits. However, it was sampled and found to be non-detect for hydrocarbons and solvents (Ref. 20).

- 2. The Cumberland Hardwoods facility has two under ground storage tanks and a dispenser island approximately 700 feet upgrade from Red Spring on the northern side of the railroad tracks. They've had no known problems with these tanks (Refs. 4,21).
- 3. In January 1994 the embankment to the northeast toward Formfit Rogers appeared to consist partially of construction debris. The debris is no longer visibly present, but it is unknown if it was removed or covered. Additionally, there used to be a small building in that direction that contained drums of unknown contents (Refs. 2,4).

- 4. Carter Oil Company Inc. has several above ground petroleum tanks and is located about 800 feet to the north in an upgrade direction. No known problems exist here (Refs. 2,4,21).
- 5. An Amoco service station is located about 800 feet to the northeast and is hydrogeologically upgradient of the spring. No known problems exist here (Refs. 2,4,10).
- 6. Hillis Trucking Company is located approximately 1000 feet to the northeast (Ref. 2). There are drums of waste oil and a 12,000 gallon above ground fuel tank on site. They routinely wash trucks on site and wash water could contain sediment, oil, grease, fuel and other pollutants. In May 1991 and October 1994 neighbors filed complaints with the Tennessee Division of Water Pollution Control (TDWPC) about this water standing in their backyards. In December 1994 the TDWPC received a complaint of a 200 gallon diesel spill. Diesel fuel was standing in ditches and had blackened the backyards of two residences. The Tennessee Division of Solid Waste Management was notified and has been overseeing the cleanup. Since this area is hydrogeologically upgradient of Red Spring contaminants infiltrating into the ground could be transported in that direction (Refs. 2,10,12).
- 7. Trapper's Automotive is located west of the Site on the other side of the railroad tracks. No known problems exist here (Ref. 2).

2.3 Offsite

Century Electric, a state Superfund site, is located approximately 1000 feet to the northwest near the dividing ridge in the residuum aquifer. No PCB contamination from Century Electric has been detected in Red Spring and ground water at that Site is believed to flow in a northern direction (Ref. 10).

2.4 Waste Characteristics

In January 1994, a noticeable sheen with the odor of weathered gasoline and a sweet smell associated with solvents emanated from Red Spring. In addition, the presence of Gallionella ferruginea, a common iron bacteria, and a strong iron buildup indicated the presence of hydrocarbons. The spring was sampled by the Tennessee Division of Underground Storage Tanks in January 1994 and was found to contain Benzene, Ethyl Benzene, Toluene, O-Xylene, M&P Xylene, 1,1 Dichloroethane, 1,1 Dichloroethene, and Trichloroethene (Ref. 4). Benzene and 1,1 Dichloroethene levels were greater than the Maximum Contaminant Levels listed for drinking water (Ref. 19). In April 1995, Red Spring was dry and there was no odor or presence of iron bacteria/iron buildup. Vegetation in the area also appeared normal. However, a small seep with a sheen was noticed approximately 100 feet northwest of Red Spring which indicates the source of contamination may still be present (Refs. 2,24).

Of the eight abandoned drums at the Site, two have unattached lids, two are bulging, and the rest are in poor condition (Ref. 6). The drums are believed to contain roofing tar and water (Refs. 2,27). Roofing tar is composed of miscellaneous hydrocarbon mixtures (Refs. 17). The drums are on a concrete pad and there are no signs that the tar has spread off the pad (Ref. 2).

3.0 GROUND WATER PATHWAY

3.1 Hydrogeologic Setting

The Site is located on the eastern flank of the Highland Rim near it's boundary with the Cumberland Plateau (Ref. 1). This is an area of well developed karst terrain, formed in Mississippian Limestones. The McMinnville Geologic Quadrangle indicates that the geologic structure, drawn on the top of the Warsaw Limestone, is dipping to the southeast in the vicinity of Cumberland Lumber. Since confining layers largely determine ground water flow elevation and direction, it is highly unlikely that ground water will flow for any appreciable distance to the northwest which is against the dip. To flow against the dip, it would have to breach the Lower Warsaw Confining Layer. Additionally, investigations performed near the Site indicate the potentiometric surface is higher to the northwest between Mile Branch and Bybee Branch. Karst studies have determined that ground water flow in the area near the site is to the south and southeast (Ref. 10). Due to the close proximity of the sanitary sewer lines natural ground water flow may be altered causing more water to be directed toward Red Spring (Ref. 2).

Rock formations at the site are (from top to bottom) St. Louis Limestone, Warsaw Limestone and the Fort Payne Formation (Ref. 28).

The St. Louis Limestone is a fine-grained limestone that is dolomitic and cherty and has a total thickness of about 180 feet. However, it may not even be present at most locations near the Site, having been weathered into residuum. The soil residuum is composed of silts and clays containing weathered chert nodules and fragments. Depth to bedrock can be up to 35 feet ,but varies due to an irregular bedrock surface. This forms a porous-medium, laminar-flow aquifer in the vicinity of the Site which supplies water to Red Spring. Depth to this aquifer is approximately ten feet. There appears to be a dividing ridge in the residuum aquifer about 1000 feet northeast of Red Spring, which separates ground water flowing northward from that flowing south/southeast (Refs. 10,11). This aquifer is not used by area wells (Refs. 8,13).

The Warsaw Limestone is 45-80 feet thick in this area. Hydrologically it acts as three different units. There is an upper confining layer, a middle karst aquifer, and a lower confining layer. The Upper Warsaw Confining Layer is a siliceous, calcareous, siltstone/sandstone bed at the top of the Warsaw Limestone. This bed appears to be responsible for a perched water table in the lower St. Louis Limestone. Red Spring is perched on the Upper Warsaw Confining Layer and feeds an intermittent stream which sinks upon breaching this unit to become a cave stream flowing within the Middle Warsaw Karst Aquifer. The Middle Karst Aquifer is composed of thin to thick bedded bioclastic limestone. The cave stream is perched upon the Lower Warsaw Confining Layer which is composed of calcareous, siliceous siltstones and cherts located in the lower 25-30 feet of the Warsaw Limestone. Springs along the Barren Fork River cascade off of this confining layer down into the river.

No springs have been found in the lower Warsaw Confining Layer. This formation can be a good aquifer if a solutional cavity is encountered (Ref. 10).

The underlying Fort Payne Formation is 45+ feet thick and composed of cherty limestone that is largely dolomitic and in part silty. It outcrops along the Barren Fork River. No springs have been found in this formation and there is probably very little recharge through the lower Warsaw Confining Layer into an aquifer in the Fort Payne Formation (Ref. 10). In the vicinity of the nearest drinking water well, this formation forms an aquifer at a depth of 43 feet (Ref. 8,13,28).

3.2 Ground Water Targets

Areas within and immediately outside McMinnville are served by the city water supply and the remaining portion of the area is served by the Warren County Utility District. Both of these get their water from a surface water supply. It is estimated that approximately 100 or less homes in the entire county are still served by private water wells. However, there are known to be six residences that are still on well water within the area of concern. With an average of 2.57 people per household about 16 people would be affected. The nearest drinking water well is about 1.8 miles to the north (Refs. 1,8,13,16).

3.3 Ground Water Conclusions

A release to ground water is known to have occurred in the surficial aquifer at the Site, but municipal water is believed to be used by all residents near this area. The nearest well in use is 1.8 miles away and five other wells are known to be used within the area of concern. However, due to an extensive karst study performed in this area, it is possible to determine that even though there are residential wells within four miles they are not very likely to be contaminated from the Site. Hence, a current drinking water supply has probably not been affected. Nevertheless, the surficial aquifer at the Site is of concern (Refs. 1,4,8,10,13).

4.0 SURFACE WATER PATHWAY

4.1 Hydrologic Setting

The Site is not located in a flood plain (Ref. 31). Soils in the area are mostly the Cumberland silt loam. This soil is well drained and will allow rapid infiltration; therefore, reducing surface runoff in areas not altered by development (Ref. 29). Runoff that does occur will flow to an intermittent stream which drains the valley. This main stream begins as a spring north of the railroad tracks and flows southeast under the railroad and across the Site. On the Site it is surrounded on each side by an embankment. In January 1994, Red Spring began about 300 feet northwest of Sparta Street and flowed west about 40 feet into the main stream (Ref. 2). The upper 15 feet of Red Spring is now covered by dirt fill which may cause flow to be redirected. The intermittent stream bed, which is on the Upper Warsaw Confining Layer,

continues southeast for about 1200 feet till it reaches the Middle Warsaw Karst Aquifer. There the stream sinks underground. It is believed to flow 500 feet southwest through cave passages to a spring which emerges above the Lower Warsaw Confining Layer and flows about 200 feet down a ravine into the Barren Fork River. This is the Primary Point of Entry (PPE) (Refs. 2,10).

From here the Barren Fork River Flows East 3.75 miles into the Collins River. Barren Fork River is estimated to have an average flow rate of 600 cfs. The Collins River flows north for the remainder of the 15 mile downstream pathway. The average flow rate of the Collins River is 1,157 cfs (Refs. 1,7).

4.2 Surface Water Targets

There are no drinking water intakes located within 15 downstream miles of the Site. McMinnville City Water Supply Intake is located on the Barren Fork River upstream from the PPE. Likewise, Warren County Utility District Water Supply Intake is located on the Collins River upstream from the Barren Fork River confluence. The Cumberland Pigtoe (Pleurobema Gibberum), is a mussel that inhabits this area and is listed on State and Federal Endangered Species List. Both rivers are considered to be fisheries and are used for recreational boating. The Collins River is also listed as a State Scenic River. (Refs. 8,30).

4.3 Surface Water Conclusions

The surface water pathway is not a major concern because of the distance to the Primary Point of Entry and the amount of dilution from the Barren Fork River. Additionally, there are no drinking water intakes downstream (Refs. 2,4,8).

5.0 SOIL EXPOSURE AND AIR PATHWAYS

5.1 Physical Conditions

The Site is located in an industrial/commercial/residential area of McMinnville. Access to the property is unrestricted. There are eight drums in poor condition on the Cumberland Lumber Company lot. They are located on the north side of the abandoned building on a concrete pad. They are suspected to contain roofing tar and water. Red Spring emerges from the bottom of an embankment, 300 feet northwest of Sparta Street near it's intersection with Oak Street, and flows into an unnamed intermittent stream. Red Spring was contaminated with hydrocarbons and solvents in January 1994, but presently is not flowing and shows no signs of contamination. However, a small seep about 100 feet northwest of Red Spring has a sheen. The intermittent stream that drains the Site flows south through the backyards of a residential neighborhood and empties into the Barren Fork River (Refs. 2,4,27).

5.2 Soil and Air Targets

There are currently no workers on-site, but there are residences and businesses nearby. The closest residence is on Oak Street, about 400 feet away. The nearest businesses are the active Cumberland Lumber Company facility and a pool hall at the corner of Oak Street and Sparta Street. Both of these are approximately 350 feet away. Beginning 400 feet downstream of Red Spring the intermittent stream flows through the backyards of 13 homes (Refs. 2,24). If contaminants have moved downstream up to 30 residents could be within 200 feet of contaminated sediment (Ref. 16). The population living within 0.25 miles of the Site is 1182, 1232 live within a 0.25 to 0.5 mile radius, 2110 live within a 0.5 to 1 mile radius, 7893 live within a 1 to 2 mile radius, 3770 live within a 2 to 3 mile radius, and 1006 live within a 3 to 4 mile radius. Total population within four miles of the Site is 17,193 (Ref. 16).

5.3 Soil Exposure and Air Pathway Conclusions

The soil exposure pathway could be of concern, particularly if contaminants move downstream to where the stream flows through the residential area. This would place contaminated sediment in the backyards, and within 200 feet, of several residences. However, this does not seem likely at present. Contamination no longer appears to be getting into the intermittent stream in significant amounts. Additionally, the contaminants of concern are volatiles which has probably allowed previous contamination to dissipate over time (Refs. 2,4).

Due to the high volume of dilution in the ambient air and the lack of workers or residences in the immediate vicinity of the Site the air pathway is not a concern at this site (Refs. 2,24).

6.0 SUMMARY AND CONCLUSIONS

The Site is located in an industrial/commercial/residential area of McMinnville, TN. Problems at the Site include a contaminated spring and eight abandoned drums (Ref. 2).

In January 1994 Red Spring was producing water; it had an odor of solvents and weathered gasoline and orange stains from iron bacteria and iron buildup. The Tennessee Division of Underground Storage Tanks sampled the spring and found hydrocarbons and solvents. Red Spring emerges from the bottom of an embankment between two industrial properties and flows into an intermittent stream which goes through the backyards of a residential neighborhood. There are at least seven different possible sources for the contaminated ground water including the city sanitary sewer system (Refs. 2,4). During a return visit in April 1995 (15 months later), the spring had been partially covered by fill and was not producing water, there were no odors, and there were no orange stains present. Vegetation also appeared to be growing normally. Hence, it is unknown if the spring is still contaminated. However, a small seep about 100 feet northwest of Red Spring was noticed to have a sheen; indicating that the source of contamination may still exist (Ref. 24).

There are eight drums are at the Site in poor condition. They are believed to contain roofing tar and water. (Refs. 2,27).

A release to ground water is known to have occurred in the surficial aquifer at the site; however, municipal water is believed to be used by all residents near this area and it is unlikely contamination in this aquifer will affect a drinking water supply (Refs. 8,13).

The surface water pathway is not a major concern because of the distance to the Primary Point of Entry and the amount of dilution from the Barren Fork River. Also there are no drinking water intakes in the 15 mile downstream pathway (Refs. 2,4,8).

The soil exposure pathway could be of concern if contaminants migrate downstream. This would place contaminated sediment in the backyards, and within 200 feet, of several residences. However, contamination no longer appears to be entering the intermittent stream in significant amounts and the contaminants of concern are volatiles. Hence, sediments 400 feet downstream are not likely to show contamination (Refs. 2,4).

Due to the high volume of dilution in the ambient air and the lack of workers or residences in the immediate vicinity of Red Spring the air pathway is not a concern at this site (Ref. 24).

Red Spring is not flowing and shows no signs of contamination; however, it may now be plugged by fill material. A small seep with a sheen about 100 feet northwest of Red Spring indicates that a source of contamination may still exist. Based on information presented, No Further Remedial Action Planned (NFRAP) by the federal government is appropriate for this site. The site should be turned over to the State for any appropriate action.

REFERENCES

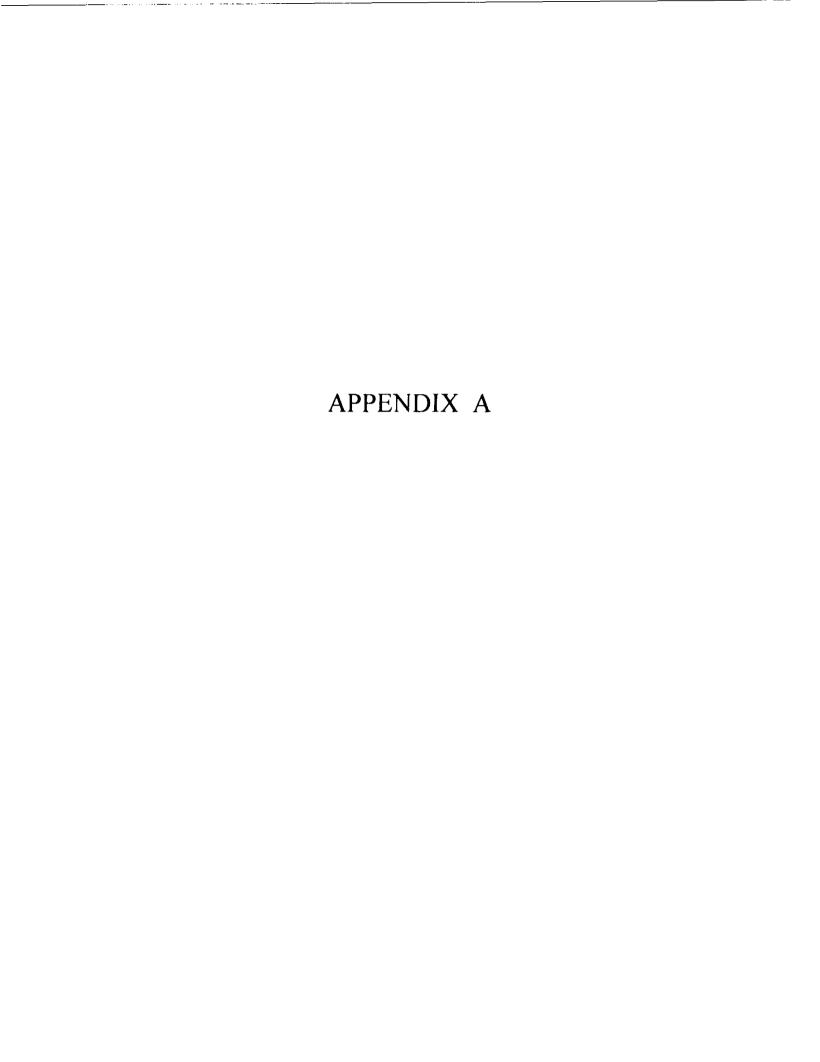
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REFERENCE 1

OVERSIZED DOCUMENT



Deate: = 130/95

Facility: Cumberland Lamber Co.

Site: 89-506

Type Facility: Unused let myth containted spring

County: Warren

City: McMinne, lle

Strite: TIN

Purpose of Visit: Site.

reconnaissance & some line
internation

State Resonnel: John Kizer (TK)
Tim Stewart (uts)
Other Reply contacted:
Duke Brown (McMinnille City Water Dept)

Photos: No Samples: No Weather: Sunny, 505, w. dy Vehicle: 51-cr80 Milage: 177 Doln Right 3/30/95

John Lyn 3/50/85

among gass vegitation that appeared to be where ked Spring flowed Rod Spring flowed Rod Spring flowed Rod by dirt fill. The soil showed no Endence of orange stains and no and are not considered a possible The drums are on the opposite side of the embantment from Red Spring were agar. They appeared to contain rooting tar and water. These draws are on a concrete pad and there are no signs the turnas spread of of it. source of contimination to the spring. Some drums were bulging and lids noticed behind Trapper's Antomotive There was a narrow strip of soil to abandoned building on the site. Inspected the eight drums next next to Cumberland Lumber where intermittent stream flows. Stream Arrived at Cumberland Lumber Company site. Observed area behind Trappers Automotive and

odor was noticed. Vegitution in the area did not appear stressed. The Sanitary sewer line runs by keny close to where Red Spring originates and is a possible source of contamination.

0940 Left site to observe surrounding area. Followed the intermittent Stream bed southward to where it enters the river It flows through the bock yards of a residential neighborhood. The nearest residence is approximately 400 feet from the origin of Red Spring. Observed location where stream goes underground and then emerges at a spring about 500 feet to the southwest. The water from this spring goes directly down a ravine into the Barren Fork River.

0950 Observed area that had been filled In by dirt and the location John Lyn 3/30/95

of a nearby spring that was -not contaminated. Formfit Rogers has two buildings. The one to the west appears to now be vacant. A sign out front indicates they intend to lease the building as warehouse Space, Formfit Rogers makes ladies apparel. Possible sources of contamination to Red Spring from the northeast are an Amoco service station at Sparta Street and Gulf Plant Drue, Carter O. / Company Inc. on Gulf Plant Drive, and Hillis Trucking Company on Gulf Plant Drive, No potential problems were noticed at any of these locations by off-site observation.

Went to McMinnville City Water - Department. Spoke to Duke Brown about location of sanitary sewer lines. New John Fign 3/30/95

28

to the old ones in the area of the site about 4 or 5 years ago. they have not had any problem with solvent or hydrocarbons Sewer line location is shown on the site stetch. He stated sewer lines were put in next in the sewer system.

Water Department to determine route of sanitar. off-site reconnaissance of the Cumborland Lumber Compan Site. Visited McMinnuille City Went to McMinnville, TN and performed an on-sik and Sanitary sewer Summary

CENTURY ELECTPIC CUMBERLAND FORMFIT POGERS ADANOPHE & BUTLD! NG

33

John Zin 3/30/15

John Lyn 3/50/95

52

REFERENCE 3



Monthly Station Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

1961-90

TENNESSEE

James R. Owenby and D.S. Ezell

January 1992

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Climatic Data Center
Asheville, North Carolina

TEMPERATURE NORMALS (DEG F)

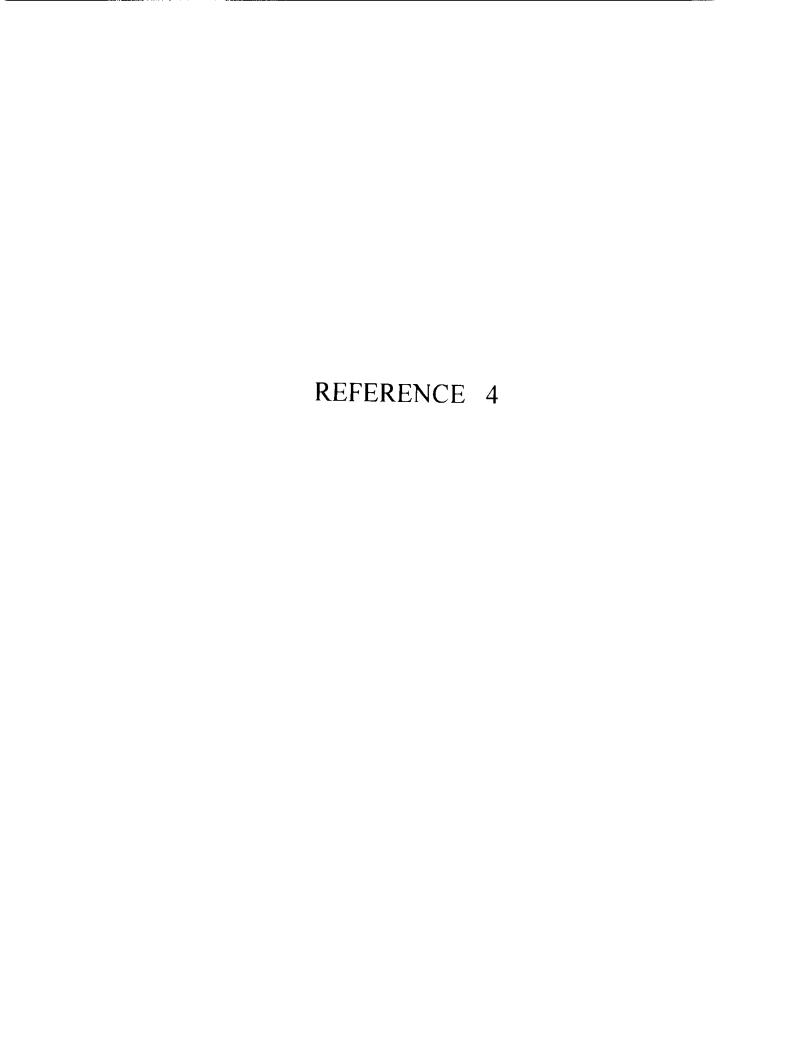
			,			71 0		OTTI		TUL				
STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
KINGSPORT 1900 L: HID OBS HID OBS	NOPMAL MAX NOPMAL MIN NOPMAL HEBIAN XMA LOA MIN TIME ADU MIN	45.7 26.4 36.1 35.5 -1.3 -1.2	50 7 28.6 39.7 39.3 -1.2	61.9 36.8 49.4 49.3 -1.6	71.2 44.4 57.8 58.0 -1.7	78.5 52.8 65.7 65.10	84.7 60.5 72.6 72.6 9	87. 1 64. 5 75. 8 76. 0	86.4 63.8 75.1 74.7 8	81 07 57.7 69.40 69.9	71.2 45.8 58.5 58.2	50.0 37.8 48.9 48.4 9	49.7 30.3 40.0 40.2 -1.3 -1.1	69.0 45.8 57.4 57.4
KINGSION SPRINGS 0700 LT MID OBS MID OBS	NORMAL MAX NORMAL MIN NORMAL MEDIAN COM LOB MIT MIN LOB MIN	45 0 21 5 33.3 33.4 1.4	49.9 24.4 37.2 37.0 4	60 5 33 9 47 2 47 3	71.1 42.5 56.8 56.3	78.4 51.4 65.0 64.3	96.0 60.1 73.1 73.3	89.3 64.5 76.9 76.9	88.6 62.9 75.7 75.4 0	82.5 55.7 59.1 68.8	72 6 41 7 57.2 56.7 .0	50.9 34.0 47.5 47.6	49 7 26.5 37.9 38.5 30	59 S 43 2 56 6
KNOXVILLE HSO AP 2400 LT HIC OBS HIC OBS	NORMAL MAX NORMAL MIN NORMAL MEDIAN ALDA MAX TIME ADJ MAX	45.3 26.0 36.0 35.3	50 9 29 1 40. 39.9 0	61.3 36.6 49.0 48.9	70 4 44 6 57 5 57 8	77.6 53.1 65.4 65.2	94 5 61.8 73.2 73.3 .0	87.1 66.0 76.6 76.9	86 7 65 3 76 0 76 1 0	81.2 59.0 70.1 70.2	70.6 46.0 58.4 57.8 0	59.9 37.5 48.7 49.2	50.1 30.0 40.1 40.0 0	68.9 46.3 57.6 57.7
	NGPMAL MAX NORMAL MIN NORMAL METOAN XAM LOA BHIT WIH LOA HIM	45 9 28.5 37.2 37.2	50.2 31.5 40.8 40.5	51 0 40.1 50.6 50.7	70.6 48.4 59.5 59.7 - 7	77 5 56.8 67 2 66.6 .0	84.4 64.2 74.3 74.3 - 4	87 2 68 4 77 8 77 6 .0	86.4 68.0 27.2 76.7 .0	81.0 62.2 71.6 71.6	70.5 49.2 59.9 59.4 1 7	60 3 40 9 50 6 50 6 - 2	50 0 32.7 41.4 41.5	68.8 49.2 59.0 59.0
LAFAYETE 1700 (T MIC OBS MID OBS	AMBON MIM JAMRON JAMRON MALCOM MAM EDA JATT MIM LOA JATT	45 1 25 4 35 3 35 3 -1 4 -1 3	50.6 28.9 39.8 39.2 -2.0	61.5 37.9 49.7 49.8 -1.7	71 5 46.2 58.9 58.6 -1.7	78 9 54 1 66 5 66 1 -1 6	85 5 61 8 73.7 74.0	88.4 65.3 76.3 76.3	87 5 53.7 75.3 8	81 9 57.5 69.7 69.8 8 - 6	72 0 45 8 58 9 59 5 -1 2	60 3 38 a 49 4 49 7 -1 0 -1 1	49.6 29.8 39.7 40.5	59 4 46 2 57 8 57 8
LAMRENCEBURG FILT PLT 2300 L: MID 08S MID 08S	XAM JAMRON MIN JAMRON MAIGAM AAN LOA JAMI AMM COA JAMIT	46 4 25 9 35 8 35 8	51 3 28 5 39 5 39 5	61.1 37.0 49.1 48.3	70.8 44.8 57.8 58.0	77 5 52 9 65 2 64 8	84.4 60.7 72.6 72.6	87 8 54 7 76 2 75 9	87.0 63.4 75.2 74.7	81 0 57 4 69.2 68.9 - 2	71.7 44.3 58.0 57.9	50 7 36 7 48 7 49 1	50 5 29.4 40.0 40.3 - 1	69.2 45.4 57.3 57.3
EBANON 3 A 0700 L MID OBS MID OBS	MARON MAX MARON MARON MARON MARON MARON MARON MAX MAX MAX MAX MARON MARO	45 2 22 8 34 0 34 0	49.7 25.8 37.8 37.6 4 2.0	50 3 35.6 48.0 48.3	70.5 44.7 57.6 57.2	78.5 53.0 65.8 65.1	85.4 61.8 74.1 74.0	89 6 65 8 77 7 77 6	89 7 64.3 76.5 76.1	82.7 57.1 70.0 69.6 - 1 - 4	72.2 43.6 57.9 58.0	60.2 36.1 48.2 48.5	49 7 27 7 38 7 39 2 0	69.5 44.3 57.1
CENCIR CITY 0700 LT MIC OBS MIC OBS	NORMAL MAX NORMAL MIN NORMAL MEDIAN TIME ADU MAX TIME ADU MIN	45 9 25 0 35 5 35 0	50 4 27.2 38.9 30 3	60.8 35.8 48.3 48.4	70 5 44 1 57 3 57 6 3 1	77.9 53.0 65.5 65.3	84 9 6:.7 73.3 73 4	87 8 65 7 76 8 76 7	87.3 64.9 76.1 75.4	81 7 58.3 70 1 70 - 1	71.5 44.8 58.2 57.8	50 5 36 6 48 6 48 6	50 0 28.7 39.4 39.1	69 1 45 5 57 3
LEHISBURG EXP SIN 0800 LT M:0 085 M:0 085	NORMAL MAX NORMAL MIN NORMAL MEDIAN AXAN LOA MIT : NIM LOA MIN	45.6 23.9 34.8 34.8	50 1 26 8 38.5 38 1	59.9 35.6 47.7 47.5	69.9 44.2 57.1 56.8	77.7 52.7 65.3 64.6 .2	85.2 61.4 73.3 73.6	98 3 65 6 76 9 76 8 0	88.0 63.9 76.0 75.3	82.0 57.3 69.7 69.3	71.8 44.2 58.0 57.4 - 1	60.4 35.4 48.4 49.0 1	50 0 28 2 39 4 0	59 10 1 457 1 577 1
LEXINGTON 0700 L MID OBS MID OBS	NORMAL MAX NORMAL MIN NORMAL MEGIAN TIME ADJ MAX TIME ADJ MIN	45 5 25 2 35 9 35 7	51.1 28.4 39.8 39.4	51 2 37.1 43 2 49.8	71.9 46.2 59.1 58.8	79.1 55.1 67.1 66.9	86.7 63.9 75.3 75.3	89.7 67.8 78.8 78.5	88 8 56 5 77 6 77 6 -0 2	83.2 60.2 71.7 71.8 - 1	73 6 46 8 60 2 59 9	51.7 38.7 50.2 50.4	50 57 29 7 24 40 0 0	70 3 47 1 58.8 58.6
LINCEN 2 0700 LT MID 9BS MID 9BS	NORMAL MAX NORMAL MIN NORMAL MEDIAN IIHE ADJ MAX TIME ADJ MIN	46 5 22 8 34 7 35 3	51 6 26.0 38.9 37.9	61.9 34.5 48.3 47.8	72.2 43.6 57.9 58.2	78.9 52.5 65.7 65.6	96.3 60.7 73.5 73.8	89 2 65 : 77 2 76 8	88.5 63.4 76.0 75.7	82 8 56.5 69.7 69.3	72.8 42.6 57.7 57.7 0	51.6 35.1 48.4 48.3	51 0 27 22 39 60 10	70 3 44.2 57.3 57.2
LIVINGSION RADIO HELV 1600 LI MID OBS MID OBS	NORMAL MAX NORMAL MIN NORMAL MEDIAN XAM LOA JM:	45, 4 25, 1 35, 3 35, 3 - 2, 0 - 1, 4	50 4 27 9 39 2 38.5 -2.0	61.2 36.6 48.9 49.1 -2.3	70.7 44.4 57.5 57.6 -2.3	77 7 52.2 64.9 64.6 -1.8	84.7 59.9 72.3 72.4 -1 2	87 3 63 9 75 6 75 3 -1 0	86.6 62.4 74.5 74.2 -1.0	80 . 8 56 . 3 68 . 5 -1 . 3	70.7 44. 57.4 57.6 -1.7	59.7 36.7 48.2 48.9 -1.6	50 0 29 6 39 8 40 4 -1 8 -1 1	68 8 44 9 56 8 55 8
MARTIN JOE T BRANCH 2700 LT MID OBS	NORMAL MAX NORMAL MIN NORMAL HEDIAN TIME ADJ MAX TIME ADJ MIN	43 6 23 1 33 4 33 6	48 3 26 6 37 5 37 4 2 0	59 4 37 0 48 2 48 3	70.0 47.1 58.5 58.5	78.5 55.7 67.1 66.6 2	86.6 63.9 75.3 75.5	89.6 67.5 78.6 78.3	88 B 65 3 77 1 76 B	82.6 58.2 70.4 70.4	72 5 45 9 59 2 59 3	59 9 37.3 48.6 48.5	48 2 28 2 38 2 38 9	59 3 46 3 57 5
HID OBS	XAM JAMRON MIM JAMRON NAMAL MAIG JAM XAM COA JMII MIM LOA JMII	47 2 27 4 37 3 37 5 - 7 -1 0	51 8 30.5 41 2 40 9	61.9 38.7 50.4 50.5 - 8	7* 6 46 4 59.0 59.1 -1.0	78.5 54.1 56.3 66.0	95.5 61.8 73.7 73.8	88 0 65.7 76.9 76.4	87.2 64.9 76.1 75.4 - 4	81 3 59 1 70.2 69.9 - 4	71.8 46.5 59.1 59.1	51 1 38 9 50 0 50 3	51 5 31 6 41 5 41 9	69 B 47 1 58 5 58 4
	NORMAL MAX NORMAL MIN NORMAL MEDIAN TIME ADJ MAX MIN LOG BMIT	48 5 3 3 3 7 40 3 0 0	53 5 34 8 44 2 44 7	63.2 43.0 53.1 53.7	73.3 52.4 62.3 52.8 0	81 0 51 2 71 2 71 1	89.3 68.9 79.1 79.1	92.3 72.9 82.6 82.3	30.8 71.1 81.0 80.8	83.9 54.5 74.2 73.8 0	74 3 51 9 63.1 62.8	62 3 42 7 52 5 52 5	52 5 34 8 43 7 44 0	77 7 67 3 67 3

NCTE: 1. ADJUSTMENT FACTORS WILL ADJUST TEMPERATURE TO MIDNIGHT OBSERVATION TIME. 2. TIME APPEARING UNDER STATION NAME IS CURRENT OBSERVATION TIME.

TENNESSEE

PRECIPITATION NORMALS (INCHES)

				116	<u> </u>	77 1 1		101111	1 5		V 1 1L U	,		
STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	001	иои	DEC	ANN
INGSION SPRINGS	NORMAL MEDIAN	3.81 3.42	4 5a 3 99	5.58 4.73	4.51 4.38	4.72	3.90 3.51	4 18	3.68 3.05	3 90 3 20	3, 25	4 71 4 50	5.12	51 94 51.05
KNOXVICLE WSO AP	NORMAL MAIG3H	4 17	4 06	5.09	3 72	4.13	3 97	4.67	3.13	3 07	2.84	3 75 3 70	4 54	47 14
KNOXVICEE WALV OF IN	NORMAL MEDIAN	4 27 4 55	4 01 3 78	4.3	3.62 3.36	4.42	4.11	4.49	3 74	3.23	3 04 3 24	3.97	4.54	48 35 48 73
LAFA*ETTE	NORMAL MEDIAN	4 18 3 83	4 28	5 51	4 47	5.23	4.42	5.07 4.67	3 78 3 48	4.00	3.45	4.85	5 72 5 24	55 16 53 88
CAMPENCERURG FILT PLT	NORMAL MEDIAN	4 83	4 50	6 33 5 29	4.70	5 56	3.49	4 62	3 62	3 98	3 54	5.10 4.34	5 55 5 72	55.98 53.79
JERANON 3 W	NORMAL MEDIAN	3.78	4.22 3.88	5 32 4 85	4.47	4 78	4.11	4 58 3 87	4.12 3.57	3.76	3.26 3.55	4 54	5 03	52 · 7 50.06
LEBANON 7 N HUNTERS PT	NORMAI MEDIAN	4 03	4 30	5.35	4.50	4.75	4.01	4 44	4.07	3 94	3 21	4 57	5.18	52 35 50.76
LENGTR CITY	AMPON NAIG3M	4.72	4 56 4 54	5.96 4.78	4 20	4 68	4 04 3 74	5 08 4 66	3.88 3.55	3 30 2 87	3 19	4 19	5 09 4 64	52.79 53.70
LEWISBURG FXP STN	NORMAL MEDIAN	4 49	4 12	5.97 4.95	4 67	5.56 5.28	3 85	5 · 9 4 · 58	3 25	3.79	3.81	4 85	5 05 4 38	54 70 53 31
LEXINGTON	JAMRON HA LOJM	3 54 3 21	4 28 3 54	5 27 5 23	4.62	5.07	3.74	4 64 3 97	3 01	3.67 3.08	3 32 3 20	4 59	5 05	50 90 49 30
, INDE 4 .2	NORMAL MEDIAN	4.61 3.99	4 54	5 74 4 78	4.87 4.34	5 51	4 16	4 50	3 62	3.64 3.10	3 24	5 13 5 14	5 95	55 71 52 85
[IVINGGTON 5 NE	JAMRON	4.38 3.85	4,24	5.25	4 76 5.07	5 10	4.25	5 45	. 1 3? . 3 3? 3 53	3 34	. 3 09 2 86	4 38	4 99	53 80 55 70
IV:NGSION RADIO W 'V	NORMAL MEDIAN	4 . t 9 3 . 7 9	4 17	4.89	4 34 4 85	4 99	3.97	5 32	4 97	3 83 3 60	3 10	4 50	5 8	52 82 53 42
HARTIN J OF T BEAMUR	NGRMAL MEDIAN	3 57 2 88	6 30 3 76	5.27	5 04 4 75	4 80	4.31	4.31	3 41 2 73	. 3 73 . 3 34	3.50	4 86	5.30	53 °0 52 98
MC MINNVILLE	JAMRON	4 34 3 93	4 . 25 4 . 00	5 83	4 46	5.09 4.85	4 18	4.90	3 44	3 88	3.43	4.57	5 23 4 25	53 30 54 26
MEMERITS FAA AD	NDRMAL MEDIAN	3 73 3 48	4.35	5 41	5.46	4 38 4 59	3.57 3.71	3.79 3.86	3 43	3.53	3 01	5 10 4.93	5 /4	52 10 65 05
MILAN 5 NW	JAHRON NAICEM	3 94	4.46	5 22	4.38	5 33	4 55 4 00	4 46	3.51	4.30	3 21 2 87	4 85	5 67 4 98	54 48 52 38
MONTEAGLE	JAMRON NA LG3M	5.51 5.70	5 32 5 56	6 79	5.24 4.64	5.55	3.30	5 67 5 25	4 09	4 54	4 24 4 30	5 71	5.84 4.90	62 50
ONTEREY	NORMAL MEDIAN	5 19	1 77 5 03	5.98 5.01	5 00	5.50	4 67	5.21	4 65	4 26	3.84	5 10	5 56	59 65 80 05
моѕлон	NORMAL	3 89	4 54 3 93	5 34	5 69 5 03	5 01	3 58 3 63	4 21 3 24	3 11 2 76	3 88	3.04	! 5 15 ; 4 83	5 54 5 56	52 9A 51 50
HP S TABBASTA TRHOOM	NORMAL MEDIAN	4 29	1 42	5 01 5 22	5.10 4.63	5 59 5 04	3.49	4.78 4.37	3 6 I 3 4 8	3 77	3 52	4 34	5.30	54 47
MUREBEESBORO 5 N	JAMRGM	4 21	4.05 3.58	5.52 4.65	4.48	5.36 5.20	3 87 3 79	4 32	3 78 3 62	4.25	3 33	4.51	4 33	53 17
NASHV1_1 450 40	NORMAL MEDIAN	3 58 3 2	3 81 3 61	1.85 4.68	4.37	4.88	3.57	3 97	2 4h 3 25	3 46 2 5a	2.62	4 12	4 61	47 32 47 01
NEABERN	NORMAL MEDIAN	3 54 2 88	4 04	5 19 4 80	5.13	5.04	4 38	4 24	3 49	3 75	3.30	4 84	5 44	52 44 51 41
NEWCOMB	NORMAL MEDIAN	3 86	3.93	4 77 4 57	4 04 3 76	4 87 4 .72	4 02 4 06	5 31 5 06	4 20	3 48	3.15	4 57 4 24 3 3 90	4 67 4 28 3 53	50 15
VEWPOR' 1 NH	NORMAL MEDIAN	3.51	3.56 3.56	4 32 3 88	3.60	4 59	3.62 3.72	4 49	3 83	1	2 56	3.79	3 42	44 21
108813	NCRMAL MEDIAN	4 33	4 16	5.34 4.96	4 25 3 77	4 63	4 58 4 88	4 79 4 12	4 29	3.51 3.49	3 18 3 04	4.58	4 92	52.78
MORTH SPRINGS	NGAMAL MEDIAN	4.46 4.30	4 44 4 28	5.79	4 45 4 60	4 96	4.36 3.35	5 01	4 18 3 46	4 26 3 58	3.32	4 64	5 53	55 40 55 44
JAK R:06F ATOL	NORMAL MEDIAN	4 57	4 34 4 36	5.58 5.34	4 08	4.68	4.34	5 45 4 58	3 70 3 14	3 86 3 60	3.19	4 59	5 30	53 77
2°D MICKOBA CAM	NORI-AL MEDIAN	3 72 3 49	4 21	5 14 4 45	3 84 3 71	4 86	3 26 3 62	3 74	3 29	3 31 2 78	2 69 2 30	4 43	5 04 4 51	48 22 46 93
ONE LOA	JAMADA	4 36 1 14	4 t9 4 40	5 32 5 37	4 48	5 26 5 05	4 53	5 31 5 35	4 24	3 87	3 87	4.52	4 58 4 20	54 53
DRUENDA	NORMAL ME OT AN	3 55 3 24	4 34 4 28	5 38 4 8	4 37	4 79	4 33	3 75	3 27 2 58	3 48 2 30	3 06	4 40	4 90	19 96
MRIS 2 MH	NORMAL MEDIAN	3 7 7 7 8 8 7	4 39 3 62	5 20 4 34	4 87 4 23	4 55 3 70	4.25 4.06 3.57	4 29	4 * *	2 70 3 77 3 55	3.29 3.29 2.38	4 02 4 93 4 71	5 37 5 4 47	48 21 52 70 51 51
TIKESTELL	NORMAL MEDIAN	4 79 4 74	4,49 4,19 4,7	5 93 5 49	4 47	1.96	3.57 3.75 3.98	4 62 4 60	3 60	3 92	3	4 56 4 57	5 13 1 18	53 13 51 84
CORTLAND SEWAGE FLANT	MEDIAN MEDIAN	3 79 1 68	4 13 1 1 50	5 3R -	4 36	5 21	4 48 3 53	4 50 4 28 3 70	3 57	3 45	3 12	4 65	4 97 4 46	51 39 51 39 18 11



TECH FILE

Alw Core File

Tennessee department of environment and conservation VIRONATE Stavart

DIVISION OF UNDERGROUND STORAGE TANKS

COOKEVILLE FIELD OFFICE

TECH FILE

PSF, NFO

File . To:

From: Elwin (Rocky) Hannah

Date of Trip: 1-25-94 Date: 1-27-94

Facility Name: " Red Spring"

Facility ID#: 4-899001

Weather Conditions: Cool and rainy

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION FIELD OFFICE

On January 25, 1994 Doug Brady and I went to the referenced site located in McMinnville near Sparta Street. We were responding to an inquiry from Tim Stewart with the Division of Superfund, Nashville Field Office. We arrived at the site at approximately 1120 hours. The spring in question is located approximately 300 feet northwest of Sparta Street near its junction with Oak St. The intermittent stream which drains the valley was turbid due to the rain. The seep in question is located northeast of the main stream 40 feet and was not turbid. The seep had a very strong odor of weathered gasoline with a sweet odor associated with solvents. addition the presence of Fe bacteria and a strong Fe buildup indicated the presence of hydrocarbons in the spring. "Red Spring" appears to be a relatively new spring possibly a wet weather spring judging from the grass which is growing throughout the seep. Kyle Phillips with the Division of Groundwater arrived at the site at 1140 and indicated that spring was known locally as Red Spring. At 1145 collected water samples for VOA's, GRO, DRO, Extractables, and TPH IR (418.5). These grab samples were collected using clean disposable latex gloves. The samples were immediately placed in a cooler containing blue ice for shipment laboratory. Since the spring is wide and shallow it necessary for me to enter the spring using waders. approached the sampling point from the downstream direction so contamination which might inadvertently be on my waders could not contaminate the samples. The bottles were gently lowered into the deepest portion of the seep keeping the lip upstream to reduce the chance of any contamination from the sides of the bottle being drawn into the sample. Throughout this sampling event care was taken to insure that cross contamination did not occur. Doug Brady and Kyle Phillips were at the site during sampling.

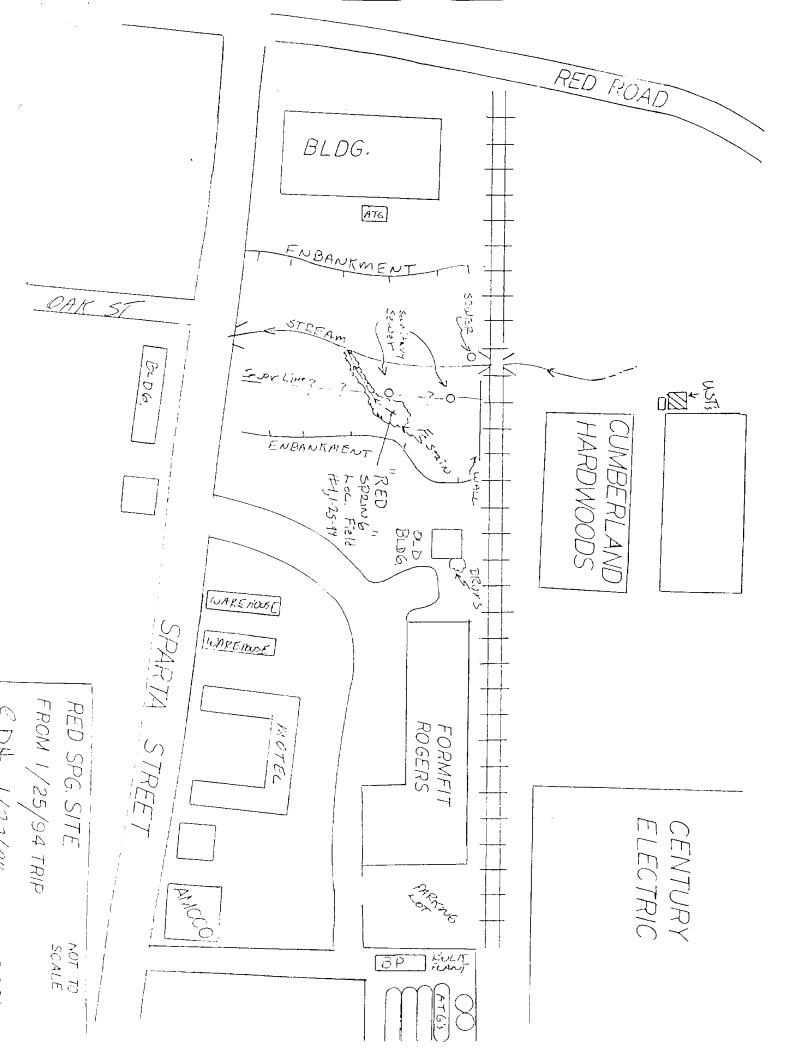
investigation in the vicinity of the seep revealed Further the following observations:

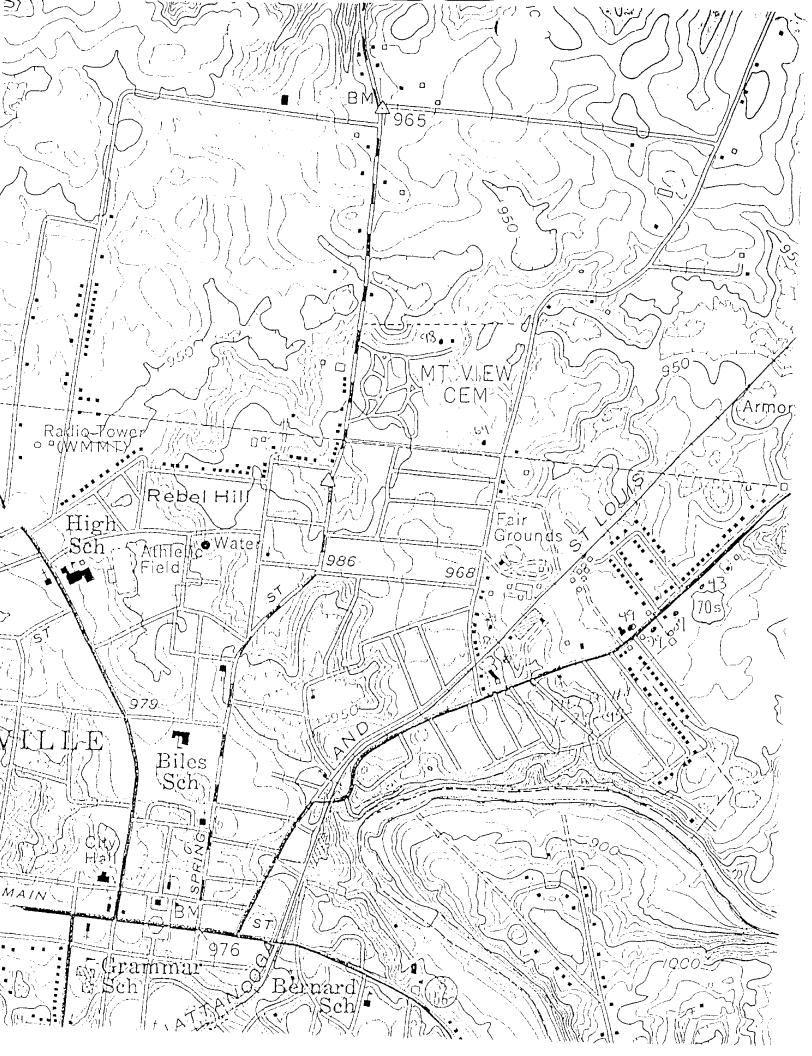
The seep may be following the city sewer which is directly adjacent to the spring. This sanitary sewer appears to be recently installed and the water may have intercepted the shallow ground water flow.

Two additional manholes are located to the northwest near the railroad. A old foundation is also located in this direction.

Several possible sources exist in the area. (1) An above ground tank is located 200 feet from the seep next to a building across the main stream. This tank may not have been in service. (2) The embankment to the northeast toward Formfit Rogers appears to consist partially of construction debris. In addition a old storage building has several drums stored in it adjacent to Formfit Rogers. (3) The Cumberland Hardwoods facility has two UST's and a dispenser island approximately 700 upgrade from the seep. (4) Century located approximately 1000 feet to Electric is north-northwest and apparently upgrade. (5) A bulk plant with several petroleum AGT's is located about 800 feet to the north and in an upgrade direction. (6) An Amoco station is located approximately 800 feet northeast and laterally to the site.

Several photographs were taken of the site by Doug Brady. A topo map and sketch are attached. We left the site at approximately 1215 hours.





STATE OF TENNESSEE - ENVIRO	NMENTA	1. LABORATORIES	·	ORGANIC ANALYSIS
Sample Source RH SPRING I.D./Site No. 4-84900/ County WARRYN Field No. / Stream Mile Depth Collected: Date /-25-44 Time //45 B: Contact Hazard Harry March 160 S Signature of sampler Plus Difference Send Report to Elwin Hame Cooke VICCE FLECT OF	EDIF L	APC DOT DWS GW SwM WUST EEP PASI SF WPC other (specify): Dilling Code (required) Field (Field (Fiel	sue X Routine ter Ambient	Base/Neutral/Acid Extractables For lab use only Laboratory Number 94-01-032 Date received //27/94 Time received / 2 / 0 by /5/6 Date reported by
Base/Neutral 34292 butylbenzylphthalate 39100 bis(2-ethylhexyl)phthalate 39110 di-n-butylphthalate 34596 di-n-octylphthalate 34336 diethylphthalate 34341 dimethylphthalate 34438 n-nitrosodimethylamine 34433 n-nitrosodiphenylamine 34428 n-nitrosodiphenylamine 34408 isophorone 34407 nitrobenzene 34611 2,4-dinitrotoluene 34626 2,6-dinitrotoluene 34205 acenaphthene 34200 acenaphthylene 34220 anthracene 34220 anthracene 34220 benzo(a)anthracene 34247 benzo(a)pyrene 34230 benzo(b)fluoranthene 34242 benzo(k)fluoranthene 34320 chrysene 34356 dibenzo(a,h)anthracene 34376 fluoranthene 34381 fluorene	34273 34278 34283 34636 34641 34386 34391 39700 34396 34551 34581 39330 39337 39338 34259 39340 39350 39350 39300 39380 34361 34356 34351	endosulfan I endosulfan II endosulfan sulfate	Base/Neutral	Acid Extractable 34552
34403 indeno(1,2,3-cd)pyrene 34696 naphthalene 34461 phenanthrene 34469 pyrene	39390 34366 39410 39420 39400	heptachlor heptachlor epoxide	* please check desired parameter Lab Comments:	

STATE OF SNESSEE - ENVIRO	NMENTAL LABORATORIES		ORGANIC ANALYS'
Sample Source Red Sprin ID/Site No. 4 - 849 001 County Wayren Field No Stream Mile Depth Collected: Date 1 - 25 - 14 Time 1/45 B Contact Hazard A 44 20 6 / 2005 Signature of sampler Per Depth Send Report to FLWIN HANN COUNT CHICK FIELD OF	SWM X UST EEP PASI SF WPC other (specify): AH Billing Code (required)	Emergency _X.egal	Purgeables and Petroleum 1. arocarbons For lab use only Laboratory Number 94-0/-032 Date received 1/27/94 Time received by BAN Date reported by Reviewed by
* Halogenated	* Halogenated	* Aromatic	* Petroleum Hydrocarbons
32104 bromoform 32101 bromodichloromethane 34413 bromomethane 32102 carbon tetrachloride 34301 chloroethane 34576 2-chloroethylvinyl ether 32106 chloroform 34418 chloromethane 32105 dibromochloromethane 34536 1,2-dichlorobenzene 34566 1,3-dichlorobenzene 34571 1,4-dichlorobenzene 34668 dichlorodifluoromethane 34496 1,1-dichloroethane 34501 1,1-dichloroethane 34501 1,1-dichloroethane 34540 trans-1,2-dichloroethene trans-1,2-dichloropropene 34699 trans-1,3-dichloropropene 34699 trans-1,3-dichloropropene 34516 1,1,2,2-tetrachloroethane 34516 1,1,2,2-tetrachloroethane	3475 A tetrachloroethene 34506 1.1.1-trichloroethane 34511 1.1.2-trichloroethane 39180 trichloroethene 39488 trichlorothuoromethane 39715 vinyl chloride The Contrary Fleutricy Contrary Fleutricy There is a file Solvents Solvent	34030 benzene 34301 chlorobenzene 34371 ethylbenzene 34010 toluene o-xylene m-xylene Other	* please check desired parameters * please check desired parameters
PH-3013 LAB (rev. 8/92)	Smell.		RDA NO. 1527

STATE OF TENNESSEE ENVIRONMENTAL LABORATORIES ORGANIC ANALYSIS, EXTRACTABLES

CODE BASE/NEUTRAL EXTRACTABLES. VALUE & J. CODE BASE/NEUTRAL EXTRACTABLES. VALUE & J. CODE. BASE/NEUTRAL EXTACTABLES.

Sample Type: WATER

Sample Site Code: 4-899001

Sample Source: RED SPRINGS

County: 89 Field No: 1

Collected-Date 01/25/94 Time 11:45 By EDH

Date Priority Needed / /

Laboratory Number 94-01-0324 Branch Lab Number Received-Date 01/27/34 Time 08:00 By GAM

Sampling Agency: UST/08

Sample Priority: Emergency[N]Legal[Y]Routine[N]Ambient[N]

VALUE @

			1	
	BUTYLBENZYL PHTHALATE	34636 4-BROMDPHENYLPHENYL ETHER	39508 PCB 1260 U	K1.1
	BIS(2-ETHYLHEXYL)PHTHALATE	34641 4-CHLOROPHENYLPHENYL ETHER	. 81649 PC8 1262U	K1.1
39110	DI-N-BUTYL PHTHALATE	34386 HEXACHLOROCYCLOPENTADIENE		
34596	DI-N-OCTYL PHTHALATE	34391 HEXACHLOROBUTADIENE	CODE ACID EXTRACTABLES V	ALUE @
34336	DIETHYL PHTHALATE	39700 HEXACHLOROBENZENE		
34341	DIMETHYL PHTHALATE	34396 HEXACHLOROETHANE	34552 4-CHLORO-3-METHYL PHENOL	
34438	N-NITROSODIMETHYLAMINE	34551 1,2,4-TRICHLOROBENZENE	34586 2-CHLOROPHENOL	
34433	N-NITROSODIPHENYLAHINE	34581 2-CHLORONAPHTHALENE	34601 2,4-DICHLOROPHENOL	
34428	N-NITROSO DI-N-PROPYLAMINE	39330 ALDRIN	34606 2,4-DIMETHYLPHENOL	
34408	I SOPHORONE	. 39337 ALPHA BHC	34616 2,4-DINITROPHENOL	
34447	NITROBENZENE] 39338 BETA BHC	34657 2-METHYL-4,6-DINITROPHENOL_	
34611	2,4-DINITROTOLUENE	. 34259 DELTA 8HC	. 34591 2-NITROPHENOL	
37	^ 5-DINITROTOLUENE	39340 GAMMA BHC(LINDANE)	. 34646 4-NITROPHENOL	
]4	ENAPHTHENE	. 39350 CHLORDANE	39032 PENTACHLOROPHENOL	
34200	_NAPHTHENEACENAPHTHYLENE	. 38310 4,4 DDD	34694 PHENOL	
14220	ANTHRACENE	39320 4,4 008	34681 2,4,6-TRICHLOROPHENOL	
34526	ANTHRACENE BENZO(a)ANTHRACENE	39300 4,4 DDT		
34247	BENZO(a)PYRENE	39380 DIELDRIN	OTHERS	
34230	BENZO(b)FLUORANTHENE	1 34361 ENDOSULFAN I).	
34521	BENZO(ghi)PERYLENE	34356 ENDOSULFAN II		
	BENZO(k)FLUORANTHENE	34351 ENDOSULFAN SULFATE	1.	
14556	DIBENZO(a,h)ANTHRACENE	(39390 ENDRIN		
14376	FLUORANTHENE	34366 ENDRIN ALDEHYDE		
14381	FLUORENEINDEND(1,2,3-cd)PYRENE	. 39410 HEPTACHLOR		
34403	INDEND(1,2,3-cd)PYRENE	39420 HEPTACHLOR EPOXIDE	1.	
14696	NAPHTHALENE	39400 TOXAPHENE		
4461	PHENANTHRENE	39480 METHOXYCHLOR UC2.5	1.	
4469	PYRENE	PC8 1016/1242U(2.5		
4320	PYRENE CHRYSENE 31S(2-CHLOROETHYL)ETHER	3948B PCB 1221		
4273	31S(2-CHLOROETHYL)ETHER	39492 PC8 1232UK3.1		
4278	BIS(2-CHLOROETHOXY)METHANE	39500 PCB 1248UK2.5		
4283	9[S(2-CHLOROISOPROPYL)ETHER_	. 39504 PCB 1254 UK1,3		
	'	1414 A. 1	1	
Repor	ting Units, unless otherwise noted:	Unit supervisor	Completed-Date:02/02/94 Time: By:Si	BU
luater	un/l: sediment un/kn:fish an/kn	Nata 1-11-214	•	

Signature of supervisor indicates that the work was performed in accordance with federally approved procedures where available and in compliance with current quality assurance criteria except as qualified.

Comments::U-UNDETECTED. D-DETECTED. THIS VALUE IS THE SAMPLE QUANTITATION LIMIT.

PH-JU16LAB(REV 5/90)

water, ug/l; sediment,ug/kg;fish,ag/kg

STATE OF TEMMESSES ENVIRONMENTAL LABORATORIES PETROLEUM HYDROCARBON ANALYSIS

Sample Priority: Emergency[N]Legal[Y]Routine[Y]Amoient[N]

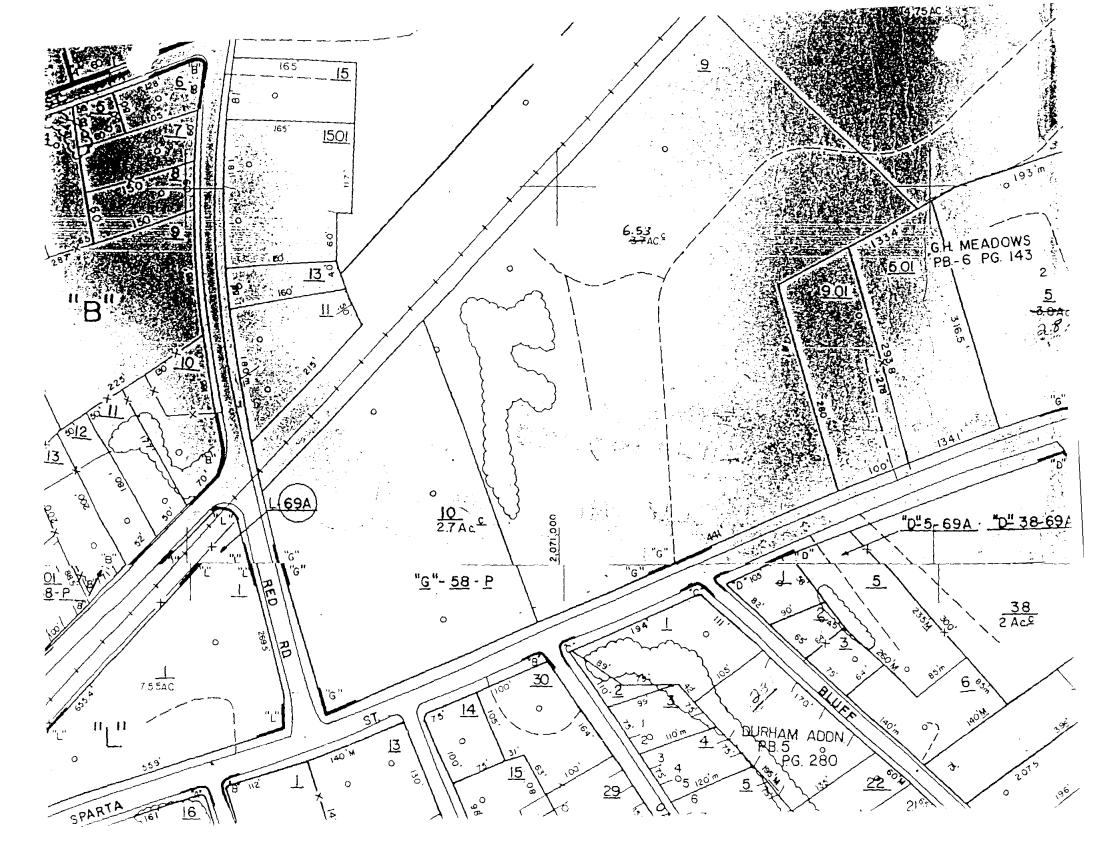
Sample Type: WATER Sample Site Code: 4-899001 Sample Source: RED SPRING County: 39 Field No. 1 Collected-Date 01/25/94 Fime 11:4 Date Priority Needed / /	15 8 y EOM	Laboratory Number 94-01-0324 Branch Lab Number Received-Date 01/27/94 Time 12:40 By GAM Sampling Agency: US1/08
CODE AROMATIC PURGEABLES	VALUE @	FOTAL PETROLEUM HYDROCARBONS VALUE
34030 BENZENE 34030 CHLOROBENZENE 34505 1,2-DICHLOROBENZENE 34556 1,3-DICHLOROBENZENE 34571 1,4-DICHLOROBENZENE 34371 ETHYL BENZENE 34010 TOLJENE 0-XYLENE M-XYLENE & P-XYLENE	21.2 17.1 16.4 14.2	VOLATILE PET. HYDROCARBONS 39 EXTRACTABLE PET. HYDROCARBONS UKTO
OTHER PURGEABLES		Completed-Date 02/17/94 By A8
M t-bt d=1PE 1,:-01CHLOROETHANE 1,:-01CHLOROETHENE TRICHLOROETHENE TPH BY IR	NB 	Unit Supervisor: Quel, from Data: 2-24-44 Signature of supervisor indicates that the work was performed in accordance with federally approved procedures where available and in compliance with current quality assurance criteria, except as qualified. Comments:
		ণ Reporting units, unless otherwise notad: water, ug/L; sediment, ug/kg

CHAIN OF CUSTODY AND SUPPLEMENTAL INFORMATION

Note for samplers: Only one chain of custody form is required per sample set or site (if all collected at the same time).

Sampl	Custody	EAT
1.	Collected by Climate Tunk, Delivered to Conince My Collected by	Date 1-27-94 time 1/95 Date 1-27-94 time 1240
2.	Received by Delivered to	Datetime Datetime
3.	Received by Delivered to	Datetime Datetime
4.	Received by Delivered to	Datetime Datetime
5. 6.	Received in Lab by Bloid Mickle Logged in by Structer Company	Date $\frac{1/27/94}{1/27/94}$ time $\frac{1240}{140}$
Additi	onal information	,
7.	Nearest town or city McMinnoille	
8.	Names of others present at time sample collected Kyle	Phillips Doy Brady
9. 10.	Approximate volume of sample (5) York vial) (2) 1+1+er IR Number of other samples collected at same time at this point	2) ILITER DRO, (2) ILITER EXTRACTABLE
11.	Describe field collection procedure and special handling or p	reservation of this sample
	EAG GRAB PROTOCOL	
12.	Describe how sample transported to laboratory 5/197	E AUTO ONICE
13.	Sample sealed by Date s	ample sealed
14.	Remarks	





REFERENCE 6

Waren Co Gar, file

TRIP REPORT

Owner/Facility: Cumberland Lumber Company

Type of Facility: Lumber

County: Warren City: McMinnville Date: 3/23/94

Purpose of Visit: Investigate contamination at Red Springs

Individuals Contacted: None

Other DSF Personnel Present: None

Weather Conditions: Clear, sunny, temperature in the 60's and 70's

Samples taken: no Photos Taken: Yes

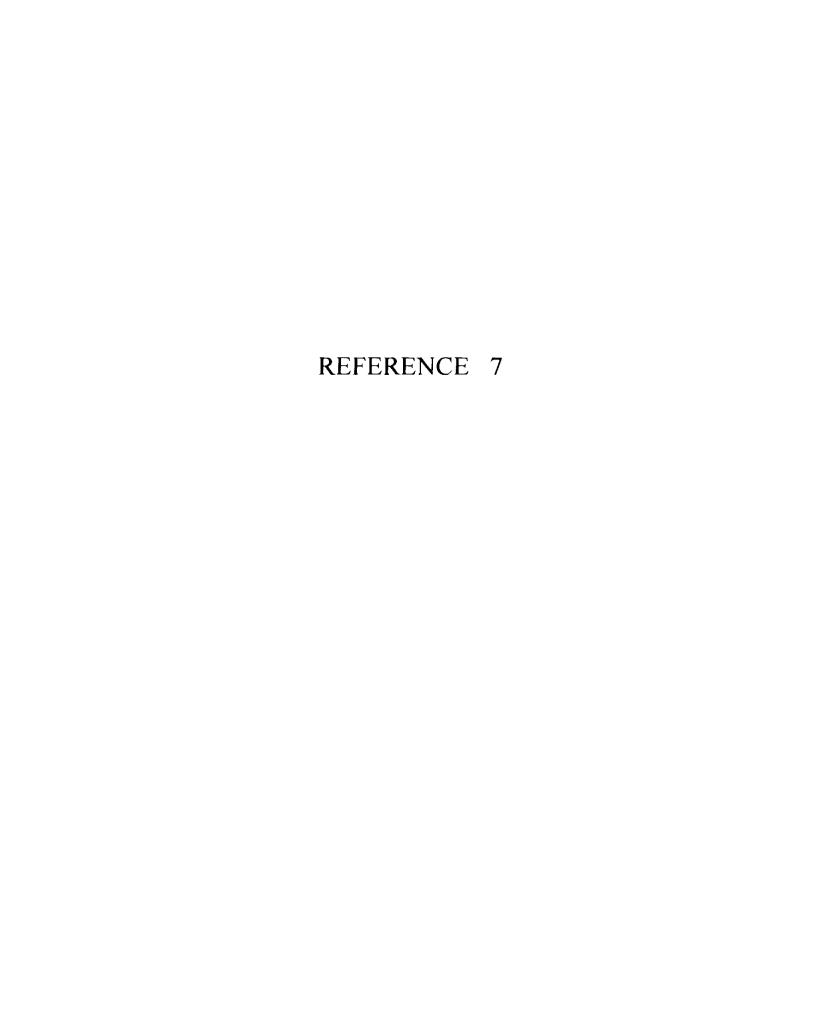
Comments: I investigated the potential sources of contamination at Red Springs. The adjacent buildings and the property are owned by Cumberland Lumber Company. I noticed eight drums on the north side of the building. Two of the drums have unattached lids, two are bulging, and the rest are in poor condition. One empty drum is at the culvert under the railroad tracks. A noticable sheen and strong solvent odor eminate from Red Springs. A generator, several surplus U. S. Army trailers, a storage tank, and various other pieces of equipment litter the facility. One drum is on the second floor walkway. The windows of the buildings are covered by plywood. Trapper's Automotive is located just upstream of the facility but does not have an underground storage tank. Just upstream from Trapper's is a refridgeration company and Davis Sign Company. Overlooking these facilities is the Cumberland Lumber Company main plant. To the east is an old warehouse building owned by Harris and Harris Sales Company and Formfit Rogers. Downstream of the springs is a residential area.

Vehicle: S5-DR35 Mileage: 187 miles (charged to Century Electric)

Report by: William T. Stewart Date: 3/24/94

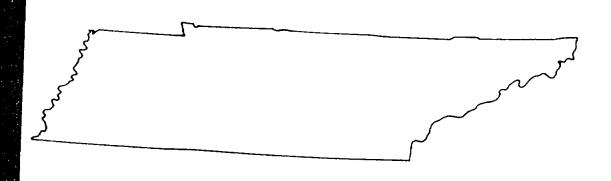
Signature: William T Alexan

xc: Central Office





Water Resources Data Tennessee Water Year 1990



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT TN-90-1 Prepared in cooperation with the State of Tennessee and with other agencies

03421000 COLLINS RIVER NEAR MCMINNVILLE, IN

LOCATION. -- Lat 35°42'32", long 85°43'46", Warren County, Hydrologic Unit 05130107, on left bank at downstream side of bridge on U.S. Highway 70S, 1.8 mi downstream from Barren Fork River, 2.5 mi northeast of McMinnville, and at mile 19.5.

DRAINAGE AREA. -- 640 mi².

PERIOD OF RECORD, --October 1924 to current year. Prior to April 1925 monthly discharge only, published in WSP 1306

REVISED RECORDS.--WSP 873; 1929, 1932(M), 1934-35, 1936(M), 1937. WSP 1276: 1925-25, 1928(M), 1933, 1936, 1940. WSP 2110: Drainage area.

GAGE. --Water-stage encoder. Datum of gage is 825.78 ft, Sandy Book datum. Prior to Oct. 16, 1926, nonrecording gage on upstream side of bridge at same datum.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE. --66 years, 1,157 ft^3/s , 24.55 in/yr.

EXTREMES FOR PERIOD OF RECORD. --Meximum discharge, 75,300 ft⁸/s, Mer. 23, 1929, gage height, 39.1 ft, from rating curve extended above 42,000 ft³/s on basis of slope-ares measurement of peak flow; minimum, 35 ft³/s, Sept. 21, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood in 1854 is believed to have been about equal to that of Mar. 23, 1929, from information by local residents.

EXTREMES FOR CURRENT YEAR. -- Peak discharges greater than base discharge of 11,000 ft3/s and maximum (*):

Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
Oct. 2	1200	15,700 *18.300	17.75 *19.52	Feb. 10	2130	15,000	17.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Minimum discherge, 89 ft³/s, Sept. 7, 8, 9.

					M	EAN VALUE	S					
DAY	∞T	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9810 14100 7390 3890 2630	317 313 307 299 290	899 835 778 717 680	5620 3580 2610 2710 3590	2980 2450 4350 16300 10600	1230 1450 3080 3060 2430	1100 1080 1010 940 886	1020 1570 1620 1430 4280	464 430 422 523 871	187 194 191 180 175 :	154 147 142 138 143	103 102 100 97 94
6 7 8 9	1930 1500 1220 1020 891	330 548 706 1330 1230	652 619 673 945 910	3100 2840 3280 4140 3250	5380 3670 2950 2490 9930	1980 1690 1540 2110 3100	893 1170 1120 985 950	3260 2260 1670 1340 1280	640 538 469 410 369	178 182 176 189 190	145 139 179 161 154	92 91 90 90 93
11 12 13 14 15	793 715 649 598 553	952 789 693 646 787	842 818 834 814 771	2520 2080 1730 1480 1340	10300 5170 3500 2770 2370	3040 2430 1990 1730 1550	1010 1020 921 867 842	1500 1340 1150 988 852	338 312 295 283 274	227 799 735 1030 994	143 136 136 130 125	97 163 184 131 121
16 17 18 19 20	516 583 589 560 534	3610 3240 2330 1750 1410	735 681 639 645 869	1220 1120 1760 2000 2410	5550 6720 4370 3300 2720	5030 8860 6260 3980 2900	814 779 746 718 678	756 994 1260 922 807	268 259 255 251 241	629 456 370 349 277	121 119 115 114 113	118 108 100 98 97
21 22 23 24 25	497 467 440 415 394	1220 1180 3100 2830 2160	547 586 507 499 465	7020 5170 3490 2680 2380	2240 2010 2170 2040 1780	2260 1880 1620 1430 1290	1450 3710 2650 1960 1540	868 950 890 791 708	244 242 235 231 234	260 344 434 392 309	109 110 110 110 108	104 203 190 212 168
26 27 28 29 30 31	377 361 348 338 330 327	1740 1460 1320 1200 1010	466 467 463 454 588 3520	2110 1800 1590 3070 6250 4050	1550 1410 1310 	1170 1080 1000 986 1100 1140	1280 1100 1020 1110 1120	647 730 598 646 585 516	217 205 199 194 186	254 219 198 182 170 160	107 107 105 103 105 106	137 122 112 105 101
TOTAL MEAN MAX MIN CFSM IN.	54765 1767 14100 327 2.76 3.18	39097 1303 3610 290 2.04 2.27	23818 768 3520 454 1.20 1.38	91990 2967 7020 1120 4.64 5.35	122380 4371 16300 1310 6.83 7.11	74396 2400 8860 986 3.75 4.32	35469 1182 3710 678 1.85 2.06	38328 1236 4280 516 1.93 2.23	10199 340 871 186 .53 .59	10630 343 1030 160 .54	3934 127 179 103 .20 .23	3623 121 212 90 .19 .21

CAL YR 1989 TOTAL 709922 MEAN 1945 MAX 19400 MIN 234 CFSM 3.04 IN. 41.26 WTR YR 1990 TCTAL 508629 MEAN 1394 MAX 16300 MIN 90 CFSM 2.18 IN. 29.56

REFERENCE 8

ENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

DEFICE CORRESPONDENCE

DATE:

July 21, 1986

TO:

Files

FROM:

Gordon S. Caruthers

SUBJECT: Warren County Demographic Survey

FROM	то	DATE
		
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	·····	

On March 25 and 26, 1986, Charles R. Rush and Gordon S. Caruthers of the Tennessee Division of Superfund conducted a demographic survey of the McMinnville, Tennessee area in connection with the investigation of Superfund sites at Century Electric and Sunbeam/Oster Manufacturing Co. This survey concerned uses of surface and ground water in the vicinity of the referenced sites, population patterns in the area and ownership of the sites.

The following information was obtained from interviews with public officials and private citizens:

Mr. Dwaine Johnston, Warren County Soil Conservation Officer, advised that there was no use of water from the Barren Fork or Collins River for irrigation purposes so far as he knew. He also stated that there were no commercial feed lots or dairies in the area of concern.

Mr. Woodrow Young, Warren County Environmental agent, estimated that approximately 100 or less homes in the entire county were still served by private water wells. The areas within and immediately outside McMinnville are served by the city water supply and the remaining portion of the area is served by a county utility district.

Personnel from the city water department and the Warren County Utility District confirmed that all portions of the area of concern were served by public water. The water for the city system is drawn from the Barren Fork upstream from both of the referenced sites, and thewater for the county system is drawn from the Collins river about 200 meters upstream from its confluence with the Barren Fork. Although tis intake is downstream from both sites, it would not appear. to be at risk due to its location upstream from theconfluence unless a reverse flow occurred on the Collins River. This situation would appear quite unlikely. Both the city and county intakes are within three miles of either referenced site.

An attempt to contact the Wildlife Resources officer for Warren County was unsuccessful; however, the Collins River and Barren Fork are included in the coolwater stream inventory compiled by the Tennessee Division of Water Quality Control, indicating a significant fishery for coolwater species such as smallmouth bass. In addition, the Collins River is designated a pastoral river under the Tennessee Senic Rivers Program "不"一个是一次的

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The McMinnville City water department services approximately 5000 customers, based on February, 1986 billing. The Warren County Utility District supplies approximately 4000 customers, also based on February 1986 billing

Inquiry at the Warren County Tax Assessors office revealed that the Sunbeam/Oster site is owned by Warren County and is listed as parcel 040.01, Map 058. The Century Electric site is owned by the City of McMinnville and is listed as parcel 017.00, Map 058.

Roads in the three-mile radius areafrom both sites were surveyed and residents of all neighborhoods were asked about water use. Six houses in the area of concern were determined to use private wells for domestic water supply. These residences are as follows:

Otto Cartwright Rt. 9 McMinnville, Tennessee

Claude Hale Rt. 5 Faulkner Spring Road McMinnville, Tennessee

Ophie Graham Rt. 5 Bluff Springs Road McMinnville, Tennessee Lila Haggard Rt. 5, Box 431 McMinnville, Tennessee

Carl Morton
Rt. 5
Faulkner Spring Road
McMinnville, Tennessee

Allen Green
Francis Ferry Road
exact address unknown
unable to find at home but
known to be on well water

Locations of these residences are marked on maps in SIU files.

GSC/dq

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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

DATE:

March 24, 1995

TO:

John Kiser, Nashville Field Office

FROM:

John T. Weakley

SUBJECT:

ref parmname

GEMS Data for Cumberland Lumber Co.

MENU: LATITUDE/LONGITUDE: (ddmmss)

parameter description parameter value index

LATITUDE Latitude in DDMMSS 354115
 LNGITUDE Longitude in DDMMSS 854545

3. SITENAME Name of a study site Cumberland Lumber Co.

4. STATE State Identifier TN5. YEAR Year of the census 1990

6. TYPE Type of census data POP

7. STANRING Use standard ring distance no

8. SECTORS Number of Sectors

CENSUS DATA

Cumberland Lumber Co.

LATITUDE 35:41:15 LONGITUDE 85:45:45 1990 POPULATION

SECTOR

KM 0.00-.400 .400 - .800.800 - 1.601.60-3.20 3.20-4.80 4.80-6.40 **TOTALS** S 1 1164 1214 2077 7773 978 16893 3687 RING 1164 1214 2077 7773 3687 978 16893 **TOTALS**

MENU: LATITUDE/LONGITUDE: (ddmmss)

ref parmname parameter description parameter value index

LATITUDE Latitude in DDMMSS
 LNGITUDE Longitude in DDMMSS
 854545

3. SITENAME Name of a study site Cumberland Lumber Co.

4. STATE State Identifier TN5. YEAR Year of the census 1995

TYPE Type of census data POP

7. STANRING Use standard ring distance no

8. SECTORS Number of Sectors 1

CENSUS DATA

Cumberland Lumber Co.

LATITUDE 35:41:15 LONGITUDE 85:45:45 1995 POPULATION

SECTOR

KM 0.00 - .400.400-.800 .800-1.60 3.20-4.80 4.80-6.40 **TOTALS** 1.60 - 3.20S 1 1182 1232 2110 7893 3770 1006 17193 RING 1182 1232 2110 7893 3770 1006 17193 **TOTALS**

TENNESSEE DEPARTMENT
OF ENVIRONMENT
AND CONSERVATION

MAR 24 1995

REFERENCE 10

KARSTSTODY

OF

THE CENTURY ELECTRIC SITE MONENVELE, TENNESSEE

NUERIN REPORT

MARCH 1994

Prepared for

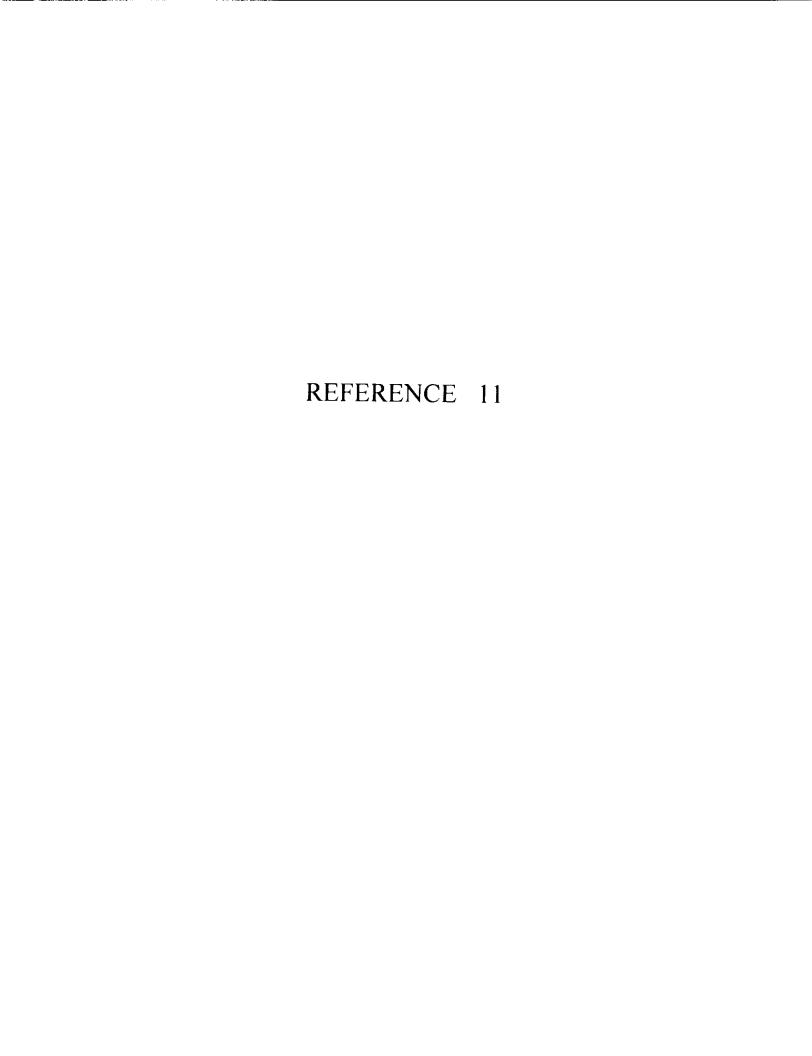
Environment and Conservation The Tennessee Department of

Division of Superfund

Prepared by



d environmental scientists WAY NASHMLE TENNESSEE 37238



SOILS AND GROUNDWATER INVESTIGATIONS AT THE CONTINUE PLANT CONTINUE SERVICE, THOU MOMINAMINE TENNESSER

Prepared By:

Michael O. Smith, Project Engineer Michael R. Groves, Hydrogeologist Jeffrey L. Pintenich, P.E., Project Wanager James H. Clarke, Ph.D., Principal-in-Charge

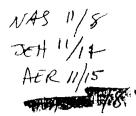
SOI Summit View Drive, Suite 300 COS Summit View Drive, Suite 300 Shentesser

t861 eunt



10,2509

COMPLAINT INVESTIGATION DIVISION OF WATER POLLUTION CONTROL



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

COUNTY Warren	
STREAM TO THE STREET OF THE STREET	NAME Hill's Trucking Company
DRAINAGE TO THE TELESTICAL TELEST	NAME Hillr'S Trucking Company 104 Gulf Street ADDRESS MC MINNWILL TN 37110
POLLUTANT ladustrial	PHONE
DATE OF COMPLAINT 3/Ocf 19	94 RECEIVED BY of Hottand Trun 5 terrart
COMPLAINT FROM Carl Duk	epartin kan der er ophönen van der
complaining about Truck Wastavater washing à	washing - Dis deposits in ditely -
LOCATION Chart Chart	alace Wind Cheat Mune dead cheef it from the
LOCATION Sparta Street	Gulf steet alar King Street [Unmarked street west of King st. Has Hillis sign
LOCATION Sparta Street Carl Duke lives in next t	Gulf steet Alar King Street [Unmarked street west of King st. Hos Hillis sign Wast house on King Street (121 King Street)
LOCATION Sparta Street Carl Suke lives in next to Date of investigation (Nov.)	Gulf steet Alar King Steet [Unaverked street west of King st. Has Hillis sign Folast house on King Street (121 King Street) 494 BY D. Wine
LOCATION Sparta street Carl Suke lives in next to DATE OF INVESTIGATION (NOV)	Gulf steet Alar King Street [Unmarked street west of King st. Hos Hillis sign Wast house on King Street (121 King Street) 494 BY D. IVIAL SAMPLES COLLECTED VES NOW
PREPORT & RECOMMENDATIONS	1000 NO SAMPLES COLLECTED YES_NO Met with Mr famer Tittsworth - Manager -
PATE OF INVESTIGATION PNOVA THOTOSTAKEN YES NO U REPORT & RECOMMENDATIONS HE Showed all around the Which he said was that a	1000 NO SAMPLES COLLECTED VES NO L Met with My famer Tittsworth - Manager - e premises - Showed me a truck washing station
PATE OF INVESTIGATION PNOVA THOTOSTAKEN YES NO U REPORT & RECOMMENDATIONS HE Showed all around the Which he said was that a	1000 NO SAMPLES COLLECTED VES NO L Met with My famer Tittsworth - Manager - e premises - Showed me a truck washing station
PATE OF INVESTIGATION PNOVA THOTOSTAKEN YES NO U REPORT & RECOMMENDATIONS HE Showed all around the Which he said was that a	1000 NO SAMPLES COLLECTED VES NO L Met with My famer Tittsworth - Manager - e premises - Showed me a truck washing station
PATE OF INVESTIGATION PNOVA THOTOSTAKEN YES NO U REPORT & RECOMMENDATIONS HE Showed all around the Which he said was that a	1000 NO SAMPLES COLLECTED VES NO L Met with My famer Tittsworth - Manager - e premises - Showed me a truck washing station
REPORT & RECOMMENDATIONS He showed an around the which he said was built a concrete pad with a sur Much settles to bottom of a sewer system. Mr T. empt drain but is connected to a a low pace at last residence	Met with Mr famer Tittsworth - Manager - e premises - Showed we a truck abstring station Withe over a year ago - It consisted of a up and root washingt drawn to sums- sums, and "supernatent" drawn to City sanitary has red that the sums does not go to a storm City sewer - He pointed out where they had filled with soil. Says storm water runoth from sparts
REPORT & RECOMMENDATIONS HE Showed are around the which he raid was built a concrete pad with a sound sever system - Mr T. engle drain but is connected to a a low place at last residence street frows across tills sit	Met with My famer Tittsworth - Manager - e premises - Showed we a truck arsting station little over a year ago - It consisted of a up and root washwork draws to sumy - rung, and "supernatut" draws to City sanitary hasiad that the sump dow not go to a storm little sewer - the pointed out where they had filled with soil . Says storm water runoff from Sparts e in it back yards of adjacent residences on east are in a low area . A storm drawy is located
PHOTOSTARIN VES NO V REPORT & RECOMMENDATIONS HE Showed all around Howhich he said was built a sound for a series for Lotton of a sever system. Mr T. englished for a low place of last residence siche of Hillis-There residence sower my residence.	Met with Mr famer Tittsworth - Manager- e premises - Showed we a truck airshing station little over a year ago. It consisted of a up and root. Wishwooder draws to sawys- rungs, and "supernatur" draws to city sanitary hasical that the sawys downot go to a storm City sewer- He pointed out where they had filled with soil. Says storm water runoff from Sparts e in into back yards of adjacent residences on east are in a low area. A storm drawy is located ent grating look small - and culvert
REPORT & RECOMMENDATIONS HE showed an around the which he raid was built a concrete pad with a sou drain but is connected to a a low place at last residence street frows across tills sit sicle of tillist There residence whilis to residence, culv Ur T. says water will pend tillis to wants to be a "good tillis to wants to be a "good	Met with My famer Tittsworth - Manager - e premises - Showed we a truck arsting station little over a year ago - It consisted of a up and root washwork draws to sumy - rung, and "supernatut" draws to City sanitary hasiad that the sump dow not go to a storm little sewer - the pointed out where they had filled with soil . Says storm water runoff from Sparts e in it back yards of adjacent residences on east are in a low area . A storm drawy is located

POLLUTANT CHOICES
SEWAGE
OIL
INDUSTRIAL
ANIMAL WASTE
OARBAGE
ODOR
NONPOINT
OTHER
UNKNOWN

STATUS CHOICES
PENDING
ILESOLVED
NO PROBLEM
NONC SENT, TO BE SENT
REFERRED TO(E.C. SWM,DWS)
INSPECTION SCHEDULED
FOLLOWUP NEEDED



				~	
No evidence	of oil spen	clage was	seen on	Hellis sife	orus
adjacent bac	Kyards -	Spillage	muset from	, the truck	washin_
adjacent bac station appear	rs unlikely	- Stu	in water o	brainage d	oes look
like a pholiku	a for the reso	idences located	between Kin	g Street r Hil	Tis Trucking
(a)					•
BNOV. Stor	in drainage	problem d	iscussed wit	h Mr Bill	Brock
public works	Director 4	73-2553.	He said he	was not a	ware of
BNOV. Stor Dublic works the drawage	problem bu	+ that he wo	uld call Mr	r Mos Dale	2 and
look into fil	e matter.				
					to and textures or the second second
		,	1. THE MAIN MEANING IS 1. F. T.		
T 2 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
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<u> </u>		····			



COMPLAINT INVESTIGATION

DIVISION OF WATER SUPPLY _______ DIVISION OF WATER POLLUTION CONTROL _____ TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

JEH BHR NAS 4/24 AER 4/24

COUNTY Warren	DRAINAGEBASIN Barran Fork Ruman
TOWN ME Menrville	STREAM
FACILITY Hellie Trucking Comp	any 104 Sulf Dave, of Sports Rd.
Pollutant Industrial	danley Hillie MEMinute 77110
DATE OF COMPLAINT 4/24/91	TELEPHONE 473-4580
COMPLAINT FROM Todd Hotel	war Can HD.
referring for	and Earling Duke + other residents
COMPLAINING ABOUT company was	An and a second an
runs into yards of adjoining	
- Todd Hutching has checken	
problem, wastewater stands	in low area of yards
= INVESTIGATION $\frac{5/9/91}{}$	BY AER
HOTOS TAKEN: YESNO	SAMPLES COLLECTED: YESNO
/ /	talked to Mrs. Duke by phone.
A.	was washing twelve on the Jaroperty
causing wartento to flow into a	djøining yarda. Oil is durped on
the ground, seeps in and run	a off the Joroparty . France
4 . <i>1</i>	rate to flood adjoining neighborhood
pipe runs out of one of Ex	en buildings discharging wasternter.
will have been bruilt on the	trucking company property & cause.
	od then fand. I advised Mrs.
	e storm drainage paroblema. I explained
her that we could take action	to stop the wastervan and oil
	rage system (size of chain & routing of
	let I informed for that an NONC
· · · · · · · · · · · · · · · · · · ·	6/6/91

for discharge we found when we investigated it of A) - I contacted Mr. James Tittsworth, an employee of 1830, Trucking, and we checked the site. He stated that approx. tucke per week are washed at a concrete ped built for to purpose. He stated that there was a culvert off the corner of the pad that carried the water to an open ditch of the storm drawings system. There was a small deference with pooled (doesd). water & mud, but I could not see any culvert visitles. There was no evidence of wasternton exiting where the culvert entere the ditch. Muddy water appears to have un off the feed I pooled in adjoining yard. The open ditch carries storments from two directions to a concrete channel of small storm drain grill between two houses. He grill looker two small to carry drainage for the large an area, grill is namount would be easily blocked by small deline. I saw no evidence of oil runoff in the drainageways. Waste oil is stored in closed dume and there was no heavy staining or signe of significant spillage. On sil disposal service does pickup 2/month. On aboveground fuel tank of gase pump are located adjacent to the truck washing area. The storage tank has only gravel been around base to hold it place, no containment. I found no evidence of a discharge pipe from any of the buildings 5/14/91 - talked with m. Hillis by phone and discussed the probleme. He stated that he may be moving to a new location within 6 months. I advised Rin that truck washing could not continue at the site if sewer commetted was not made. Mr. Hillia stated that he would explore both possibilities. He plans to build dyke/containment at new location to eater any spillage from the storage tank. I advised him that containment would be necessary at any location. Recommended they simply take the trucks to a communial can work for cleaning. I forwarded a copy of Federal regulation and spill cleaning information to Mr. Hillia. NONC . sent 6/27/91





J5114/ AGR 7/2 BATE 7/5 SJE 1/8

TENNESSEE DEPARTMENT OF CONSERVATION

Nashville Environmental Field Office 537 Brick Church Park Drive Nashville, TN 37243-1550

CERTIFIED MAIL

June 27, 1991

Mr. Stanley Nillis Hillis Trucking Company 104 Gulf Street McMinnville, TN 37110

Re: Notice of Non-Compliance
Hillis Trucking Company
Complaint Investigation - Illegal Discharge
Warren County

ar Mr. Hillis:

On May 9, 1991, Division personnel contacted Mr. James Tittsworth of your company and investigated reports of wastewater and oil discharge from your facility.

Waste oil was found to be stored in closed drums, and there was no evidence of significant problems of either spillage or runoff. The waste oil is picked up by an oll disposal service approximately twice each month.

The storm drain system serving your facility and the adjoining residential neighborhood was installed by and is the responsibility of the City of McMiunville. If this system is not adequate to handle rain runoff for the area, the City should be advised so that plans can be made to correct the drainage problems.

Company personnel stated that transport trucks and trailers are washed on the site at a rate of approximately ten per week. A concrete pad has been installed for the purpose of washing these trucks. Wastewater from the truck washing enters the storm drainage system.

This discharge of wastewater is a violation of the Tennessee Water Quality Control Act (T.C.A. 69-3-101 et. seq.) and must be eliminated. This letter will serve as a formal Notice of Non-Compliance and by copy will inform our Enforcement Section of the violation.

-

Mr. Stanley Hillis June 27, 1991 Page 2

During a telephone conversation on May 14, 1991, you stated that no detergent or soap is used in washing the trucks. You also stated that you would be willing to devise some means of resolving the problem.

Wash water would contain sediment, oil, grease, fuel and other pollutants even if only potable water is used for washing. The simplest solution to the problem would be to wash the trucks and trailers at a commercial car/truck wash which is connected to the McMinnville sewer system. If washing is to continue on the site, a suitable structure with sewer connection should be built. This would include a canopy and curbing to prevent runoff from leaving the site and rainwater from entering the sewers. A sediment trap would have to be constructed to exclude heavy solids from the sewer lines. The facility would also have to meet any requirements set by the City of McMinnville.

A 12,000 gallon above ground tank is used at by your company for storage of fuel. The storage tank has no containment structure of dyking. Federal law (Federal Register 40 CFR-112) requires secondary containment and development of a Spill Prevention Control and Countermeasure Plan (SPCC Plan) for such storage tanks. On May 14, you were advised of this requirement and the need to correct this problem. A copy of the Federal requirements and information regarding appropriate actions following a spill have been forwarded to you since that conversation.

we are requesting that you submit a written reply to this office within fifteen (15) days of receipt of this letter stating what actions you have taken, or plan to take, to eliminate the violation. Specific corrective measures and completion dates should be provided. We appreciate your prompt attention to this matter.

If you have any questions regarding the correspondence or the investigation, please contact Ann Rochelle at this office, 741-7391.

Sincerely,

Joe E. Holland, Jr.

Manager, Nashville Basin Office

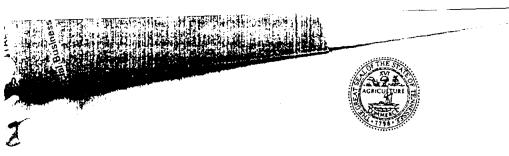
E. Helland

Division of Water Pollution Control

JEN/AR/E5261177/D4/L&M

cc: Sims Crownover, Enforcement Section

Todd Hutchins, Div. Groundwater Protection, Warren Co.



MET/-5 MET/-5 MENT/-5 MENT/-5 MENT/-5 MAN/9

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION NASHVILLE ENVIRONMENTAL FIELD OFFICE 537 BRICK CHURCH PARK DRIVE NASHVILLE, TENNESSEE 37243-1550

CERTIFIED MAIL P 315 345 584

December 22, 1994

Mr. Stan Hillis, Owner Hillis Trucking Company 126 Gulf Plant Road McMinnville, Tennessee 37110

Re: Diesel Spill

McMinnville, Warren County

Dear Mr. Hillis:

On December 15, 1994, personnel from the Division of Water Pollution Control investigated a complaint regarding allegations of a diesel fuel spill and accumulation in two backyards of residences adjacent to Hillis Trucking Company. Our investigation confirmed that this was a valid complaint. The two backyards were blackened over an area of about 15 feet by 100 feet, with an oily residue which had an odor similar to diesel fuel. Discussions with you, and an inspection of your company premises, revealed that a substantial volume of diesel fuel had been spilled behind your truck washing shed. This fuel had flowed down a ditch beside the shed, into an onsite storm drain, exited the storm drain at your property line, then across the backyards of the two adjacent properties (111 and 113 King Street), then into the City's stormwater sewer system which discharges to the Barren Fork River. later determined that someone filling a diesel fuel tank had allowed the tank to run over and spill an estimated couple of hundred gallons of diesel fuel. It is estimated that this spill occurred sometime during the last week of November.

Such pollution of the surface waters of the State, and possible pollution of its ground waters, is a violation of the Tennessee Water Quality Control Act, T.C.A. 69-3-101 et seq. This letter will serve as the formal Notice of Noncompliance, and by copy will inform the Enforcement Section of this violation.

As we discussed, all of the soil contaminated by this spill will need to be excavated and disposed of in accordance with Division of Solid Waste Management (DSWM) requirements. By copy of this letter we are notifying DSWM, Cookeville Field Office, Mr. Barry Atnip, telephone (615) 432-4015. We recommend that you get in touch with Mr. Atnip for guidance regarding the proper methods of storage, testing, and disposal of the contaminated soil.

We recommend that you get in touch with the affected adjacent property owners, and the City, regarding these corrective actions and the restoration of the storm drainage ditch.

We request that you send us, within fifteen (15) days after receipt of this Notice, a written response stating what actions will be taken to clean up and restore the contaminated areas, and what actions will be taken to prevent a future spill like this. Please be specific in describing these actions, and please provide a completion date for each action listed.

We appreciate your interest in this matter, and your desire that Hillis Trucking Company be a 'good neighbor' in the community. Should you have any questions in this matter, please call me at (615) 741-7391.

Sincerely,

David T. Irvine

David Til

Nashville Field Office

Division of Water Pollution Control

CC:

Barry Atnip - SWM/Cookeville Field Office Sims Crownover - WPC/Central Office/Enforcement Section Honorable Norman W. Rone, Mayor, City of McMinnville

Ma Monn. Tra 37118 Dec 31, 1944

To whom it may consum.

I have written to you before about a matter That concurrent the environment.

We have problem bekind our louse namely the Hillis Drucking Co. They continue to roach trucked and other relucted and the relucted into the ground.

They put a pipe in for the water to ren through but if doorn't solve the problem. The ail is going down drain onto other people's proply and running their lunn, these people eatled me about I.

Also the oil fumes makes it difficult to liveath especially in warmer meather. If would seem that they would brief brief and build out but they don't care o tile us

171 3 the Dayer sul allerinen overred ne don't getary lelp if seems money talke around here, "relies et you could send a representative here from nachville te check this out and correct glasly mach through this proten will zoe also they buried some sed truck and car parts underground. They stik this on their propterty also sine gravel that blows in the åir forms to breach. Please help we with This problem. Thank you so much Muland Duke P. S. Would at Channel of the help

help up to get us out?

COMPLAINT INVESTIGATION DIVISION OF WATER POLLUTION CONTROL

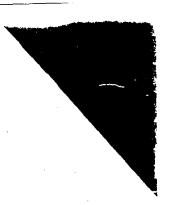
NAS 12/19 JEH 12/19 AER 1/9

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

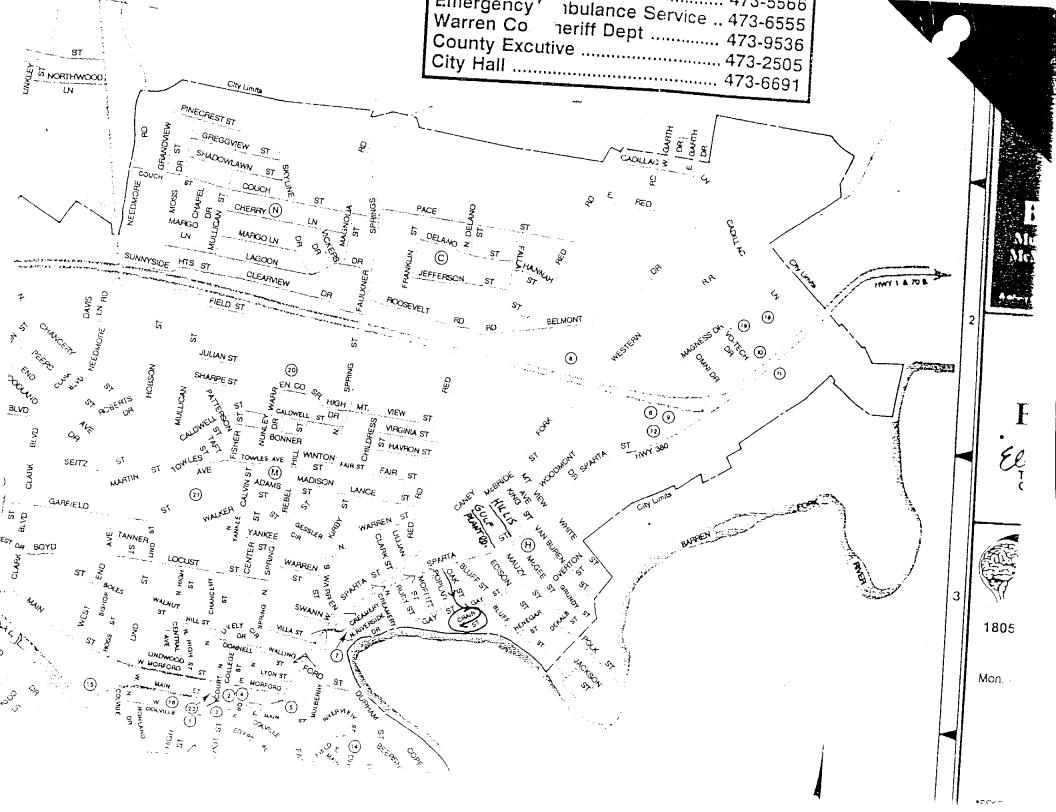
COUNTY Warren Co. TOWN McMinuville
STREAM NAME Hille'S Tracking Co.
DRAINAGE ADDRESS McMinnville TN 37110
POLLUTANT Diésel Fuel PHONE 615-473-7700
DATE OF COMPLAINT BOCK 1994 RECEIVED BY D. MUIL
COMPLAINT FROM Patricia Roberts PHONE 615-473-7838
COMPLAINING ABOUT "Black oil" all over her backgard-Thinks if happened about 10 days ago- Can't get amone to come look at it. Thinks it came from Hillis Trucking to next door.
LOCATION /1/ King Street
DATE OF INVESTIGATION 15 Dec 97BY D. Number
PHOTOS TAKEN: YES NO TOPO NO 92NE SAMPLES COLLECTED: YES NO L
REPORT & RECOMMENDATIONS Met with Mrs Roberts - She showed me aren in her back yard next to Hillis Go driveway: Area behind her house of alighbor's house was blackened with black oily evaluate. Area about 15 ft wide x 100 ft long was blackened - Slight swell of diese (fine). Appeared to have flowed into the backyards from Hillis property. Took nomerous photos. Met with tames Tithworth, Manager of Stain Hillis, Owner - They said they were not aware of spill. I showed Mr Hillis the blackened backyards. We followed flow line upstoned. Found blackened ditch adjacent to Hillis track washing shed: Had pools of diesel t water in rock lined ditch - Blackening stopped behind shed. Mr Hillis switted his engloyees of learned that a trucker retitling a finel tank behind the shed lef the tank remover and spill a couple of hundred gallons of diesel fuel. This finel flowed down the ditch beside the shed, with a short
DATE COMPLAINANT NOTHERD OF FINDINGS 16 DEC1994 STATUS NONC to be sent Cookeville Oswar notified

POLLUTANT CHOICES
SEWAGE
OIL
INDUSTRIAL
ANIMAL WASTE
GARBAGE
ODOR
NONPOINT
OTHER
UNKNOWN

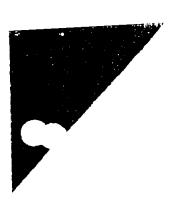
STATUS CHOICES
PENDING
RESOLVED
NO PROBLEM
NONC SENT, TO BE SENT
REFERRED TO(E.G. SWM,DWS)
INSPECTION SCHEDULED
FOLLOWUP NEEDED



Storm drain across Hillis parking large area then exited with the
Storm drain across Hillis parking larve area, then exited into the adjacent backyards - d discussed this with Ann Rochelle, they advised
Mr Hillis what he had to do to clean up the wess + to dispose of the
contaminated soil. Also advised him to confact Barry Atricia, cookerable
DSWM R: proper disposal of this soil. Mr Hillis said he had to do
this once before and that he knew what he had to do. He said he would
Mare an environmental cleanuf company take care of the watter-
16 Dec '94 of notified Sampstein, Cookerlle Down, 432-4015
Long ruged wath chief operator, and something comparate to
diesel fuel came to the warp reacted problems. They could not
find source.



office Blog. shallow Ripark) Hillis truck Shallon Hillis driveway washing shed blackened Blackered Grass CHLUERT HEADWALL Blackened ditch Smalls like * Briers coaple of pools dierel Blackened ground of diesel & Could not see answert pipe 13 Patricia Roberts Lisa Paz King street





NAS /10-1941/2 MRT 1-13 AGR-1/17

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

NASHVILLE ENVIRONMENTAL FIELD OFFICE 537 BRICK CHURCH PARK DRIVE NASHVILLE, TENNESSEE 37243-1550

complaint file

January 10, 1995

Mrs. Mildred Duke 121 King Street McMinnville, Tennessee 37110

Re: Hillis Trucking Company McMinnville, Warren County

Dear Mrs. Duke:

Thank you for your letter of December 31, 1994, regarding Hillis Trucking Company. We understand and appreciate your concerns in this matter. It happens that on December 8, 1994, one of your neighbors telephoned a similar complaint to our office. On December 15, 1994, I made an investigation and found the complaint to be valid. For your information, I am enclosing a copy of the Notice of Noncompliance which I sent to Mr. Stan Hillis, owner of Hillis Trucking Company. I've met with Mr. Hillis, and he regrets the mess created by the diesel spill. He stated that he wants to be a "good neighbor" to everyone, and he knows what he has to do to clean up this mess.

Thanks again for your interest in this matter. If you have any further problems with Hillis Trucking Company, please feel free to call me at (615) 741-7391.

Sincerely,

David T. Irvine

Nashville Field Office

Division of Water Pollution Control

Enclosure

NH3 2/6 2542/8

MEMO TO COMPLAINT FILE

FROM: David T. Irvine, WPC/NFO

February 2, 1995 DATE:

RE: Complaint No. 2544, December 8, 1944

Diesel Spill

Hillis Trucking Company McMinnville, Warren County

This complaint was investigated on December 15, 1994. An NONC was sent to Mr. Stan Hillis, Owner, Hillis Trucking Company, on December 22, 1994. This NONC included instructions to get in touch with Barry Atnip, DSWM, Cookeville Field Office, telephone (615) 432-4015, for cleanup guidance.

On January 23, 1995, I received a call from Lisa Paz, 113 King Street (adjacent to Hillis Trucking Co.), telephone 473-1969 (home after 4:00pm), 668-4296 (work). Her father is Pedro Paz, 686-8946 (home), 473-2331 (work). She reported that Hillis had dumped a couple of truck loads of dirt adjacent to the spill site, and she was concerned that Hillis was going to just cover the diesel spill rather than clean it up properly.

Subsequent phone calls to Barry Atnip, DSWM/CFO, and to Al Majors & Daniel Roop, DSWM/NFO, indicated that Hillis had not been in touch with either at that time.

On January 31, 1995, I phoned Mr. Hillis to inquire as to what was going on with regard to the spill cleanup. Mr. Hillis advised me that he has hired Harper Construction Company to handle the cleanup, that Harper had sent soil sample test data to DSWM/CFO, and that DSWM/CFO had requested additional tests.

On January 31, 1995, I phoned Barry Atnip again. Barry confirmed that DSWM/CFO yesterday had received soil test data from Harper on the Hillis spill site, that the initial test data confirmed that the site is contaminated with diesel fuel, and that additional test data was requested of Hillis.

Since it appeared that Hillis was proceeding with the cleanup in an appropriate manner, on February 1 I notified the complainant, Lisa Paz, of these findings. Ms. Paz then said that on January 3 Hillis had spread the soil and covered up the spill site.

On February 2 I notified Barry Atnip of Ms. Paz' statement that the spill site had been covered up. Barry said that he would relay this information to Bryant Stephens, who has been to the site according to Barry, and is handling this matter. Barry said that the soil may have been placed to serve as a cap over the contaminated soil pending test results, etc.

REFERENCE 13

TENNESSEE DEFARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY RECORDS OF WATER WELLS IN SELECTED AREAS OF TENNESSEE

EXPLANATION OF COLUMN HEADINGS

QUADUNTH = Designation by number, Quadrant and minth of the 2.5 - minute quadrangle area in which the well is located. The leading numbers identify the 15-minute quadrangle, the next two letters identify the 7.5-minute quadrant and the last digit identifies the one-minth subdivision or the latter.

COUNTY = County in which the well is located.

= (dentification number assigned to the well by the State. WELL NUM

TAG NUM - Am inspection number assigned to the well at the time of inspection by the State.

OWNER'S NAME = Name of person or organization for whom the well was drilled.

LOCATION ROAD = Name of street or road from which to access the well. Blank if unknown.

COMP DATE month, day and year the well was completed.

INSPT DATE - Month, day and year the well was inspected by TDHE. Blank if well has not been inspected.

TOT DEPTH = Total depth of the well in feet.

= Depth, in feet, below land surface to the top of the shallowest aguifer or water-bearing zone tapped by the well. AQ DEPTH

TOT YIELD - Total yield of the Well in gallons per minute (gpm). Yields less than one-half gpm reported as zero.

Static water-level: depth, in feet, from the land surface to the surface of the water standing in an idle well. STAT LEVEL

= Casing depth: depth, in feet, to the bottom of the water tight casing installed in the well. CSE DEPTH

CSE TYPE = Casing type: PLAST - Plastic; STEEL = Steel; OTHER = any other material such as concrete, fiberglass or tile.

WELL FINISH = Construction of the well in the interval supplying water to the well: OPEN = Uncased or open hole; SLOT = Hand perforated or slotted pipe; SCREEN = Manufactured device designed to maintain the wall of the borehole and allow ground water to enter the well.

INTERVAL \pm The depth, in feet, from the top to the bottom of the interval that is open to the well.

WAT QUAL = Water Quality: a word to describe the relative quality of the well water such as GOOD, FAIR, BAD, LIME, IRON, SULFUR, SALT, OIL, GAS, OTHER.

GEO FORM = Name of the geologic formation tapped by the well (not generally reported).

- Latitude of well site in degrees, minutes, and seconds. DATITUDE

LONGITUDE = Longitude of well site in degrees, minutes, and seconds.

A/C = Accuracy Code for latitude and longitude: S = Nearest second; F = nearest 15 seconds; T = nearest 30 seconds; M = nearest minute; Blank = hearest 2.5 minutes.

- kefers to availability of drillers log: Y = yes; M = no. LUG

DRILLER = binease number of driller who supervised construction of the well. Names provided upon request.

- Purpose for which the well was constructed: HOME = residential; COMM = commercial; etc. USE

QUAD / COUNTY			OWNER'S NAME LCCATION ROAD						TAG NUM	LONGITUDE		
0092NE WARREN	-	17701724	ATNIPSTEV	05/07/1987 / /	50 32	20 30	42 STEEL	SLOT 32 - 42	GOOD	- - -	Y	00606 HOME
0092ME WARREN	-	17700005	BRACHER K	09/11/1963	63 60	10 40	20 STEEL	-+ - - · · ·	GOOD	 		00003 HOME
0092NE WARREN		17700765	BRATCHERS_NURSE #705		229 145	10	89 STEEL	OPEN 89 - 229	OTHR	 	Y	00572 IRR
0092NE WARREN		1 7 700725	EDGETROY PUCKETT RD	05/02/1987	53 38	10 38	12 STEEL	SLOT 38 - 44	GUOD	 	Y	00600 HOME
0092ME WARREN			GAITHERAL_ BETHANY	06/30/1988 / /	185 80	15 50	41 STEEL	OPEN 41 - 185	GOOD		Y	00068 IRR
0092NE WARREN		17700804	GAITHERAL_ BETHANY	06/21/1988 / /	85 70	20 50	41 STEEL	OPEN 41 - 85	GCOD		Y	00068 IRR
0092NE WARREN	_	17700280	HILLIS J L	10/08/1969	190 		29 PLAST		BAD	35-43-32 85-50-35	S	00088 FARM
0092NE WARREN	1	17700323	JONES J	08/09/1969 / /	198 100	1 100	44 STEEL	-	GOOD	35-43-26 85-51-25	S	00221 HOME
0092NE WARREN	-		LOWTHERDAN_ BETHANY		60 50	10 45	50 STEEL	SCREEN 50 - 60	GOOD		Y	00600 HOME
0092NE WARREN			NORTHCUTTEVER	/ /	63 34	10 50	37 STEEL	SLOT 34 - 37	GOOD		Y	00600 HOME
0092NF WARREN	-	17700662	ODINEALRAY_ BETHANY	06/22/1985 / /	87 75	10 74	75 PLAST	5LOT 75 - 85	GOOD		Y	00600 HOME
0092NE WARREN	-		PENNINGTONTERR DAYLIGHT RD	09/09/1988	128 65	25 50	48 STEEL	OPEN 48 - 128	OTHR		Y	00068 IRR
0092NE WARREN	_	17700355	WHITLOCK J	06/21/1971 / /	90 80	10 40	76 STEEL	-	GOOD	35-42-45 85-52-24	S	00221 HOME
0092NE WARREN			BOLIN NURSERY YAGER	01/28/1988	144 43	10 120	43 PLAST	OPEN 43 - 144	FAIR	35-43-14 85-48-00	_	00600 HOME
0092NE WARREII		93003640	BRYSON FRED WEST JONES	05/21/1993 / /	60 50	100 40	60 PLAST	SLOT 40 - 60	GOOD		Y	00008 HOME
0092NE WARREN		17700640	DODDTOMM SEE COMMENTS	08/30/19 84 / /	94 52	1 C 8 C	55 PLAST	OPEN 55 - 94	6 000		Ý	00600 HOME

PAGE 2

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY RECORDS OF WATER WELLS ON THE MCMINNVILLE QUADRANGLE (0092NE) IN.

11/03/94

QUAL : NTH COUNTY	WELL NUM	OWNER'S NAME LOCATION ROAD	COMP DATE T	HTTAC TOT	TOT YIELD STAT LEVEL.	CSE DEPTH	WELL FINISH INTERVAL	WAT QUAL TAG NUM	LATITUDE	A/C LOG	DRILLER USE
0092ME 2 CARNON		DUKE HILT			5 1250	60	OPEN 60 - 170	GOOD	35-43-14 85-48-00		00559 FARM
0092NE 2 WARREN	17700864	ELLIOTTJAME JUDGE WARREN	04/19/1989	248 135	7 110	62 STEEL	SLOT 65 - 145	ОТНК	 	Y	00068 IRR
0092NE 2 WARREN	17700566	JONES W	11/00/1980	100 85	10 40	80 STEEL		GOOD	35-44-36 85-49-46	S	00560 HOME
0092NE 2 WARREN	90003344	JONES WESL	09/27/1990	61 43	10 43	43 STEEL	SLOT 43 - 53	GUOD		Y	00600 НО М Е
0092NE 2 WARREN		LINESAY JOEY SHORT MT RD		81 70	10 66	51 STEEL	OPEN 51 - 81	GOOD		Y	00600 HOME
0093NE 2 WARREN		MORTONS HORTICULTUR HWY 56		145 35	20 20	21 STEEL	OPEN 21 - 145	GOOD		Y	00008 IRR
0092NE 2 WARREN	17700367	PEDEGO K	05/15/1970 / /	90 70	14 50	55 STEEL		GOOD	35-42-41 85-48-41	S	00221 HOME
0092NE 2 WARREN	17700877	UNDERWOODCHAR DAYLIGHT	07/09/1988	160 155	26 80	42 STEEL	OPEN 42 - 160	OTHR	 	Y	00008 IRR
0092NE 3 WARREN		BOULDIN_& LAWSO 56 HIGHWAY		1321 115	0 1050	119 STEEL	SLOT 114 - 119	GOOD	35-42-59 85-47-06		00600 HEAT
0092NE 3 WARREN	17700872	BOULDIN, &_LAWSO HWY 56	07/27/1988	265 74			SLOT 74 - 265	OTHR		Y	00008 HEAT
0092NE 3 WARREN		BOULDINFI.OY		312 112	5 112	105 STEEL	OPEN 105 - 312		35-42-59 85-47-07		00008 IRR
0092NE 3 WARREN	17700035	BROCK D	01/00/1964	86 65	500 60	86 STEEL			35-44-36 85-46-58	S	00180 HOME
0092NE 3 WARREN	92000282	DAVISJAME FAULKNER SPRING		105 43	12 30	35 STEEL	OPEN 35 - 105	BAD	 	Y	00008 IRR
0092NE 3 WARREN	90001726	STEWART'S_NURSE HWY 56	06/19/1990 / /	105 83	20 5	79 STEEL	OPEN 79 - 105	OTHR	 	Y	00068 IRR
0092NE 3 WAPREN	:7706769	STEWART DERW	16/20/1987	203 85		83 STEBL	OPEN 83 - 203	BAD	 	Y	00571 IRR
0092NE 4 WARREN	17700363	LOWE :	08/11/1970	78 70	10 40	42 STEEL			35 40-05 85-51 31	S	00221 HOME

COUNTY	VTH	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE	TOT DEPTH	TOT YIELD STAT LEVEL	CSE DEPT	H WELL FINIS	3H	WAT QUAL	LATITUDE LONGITUD	A/C E LOG	DRILLER USE
0092NE 4 CANNON	<u>.</u>	91001833	MORRISONDAV	1 12/10/1990 / /	85 63	10	63 STEEL	OPEN 63 -		GUOD	· _		00008
0092NE 4 WARREN		17706354	OVERALL	/ /19	150	1	52	63 =	85	BAD	 35 40 30	Y	HOME
0092NE 4	-	7700633	PARKER		90		STEEL			DND	35-40-28 85-51-00	S	00221 MDOM
WARREN	•	.,00033	PARKERWAN	D 10/12/1983 / /	65 65	75 40	OTHER			OTHR			80000
0092NE 4 WARREN	7	7700364	REDMAN L R	08/17/1970	120	7	52					•	OTHR
0092NE 4	_	7700445	Director and a	/ /	100	- -	STEEL		~-	GOOD	35-41-55 85-52-27		00221 HOME
WARREN	•	1700442	RUSSELL T J	05/08/1973 / /	75 73	8 40	70 STEEL			GOOD	35-41-52		00221
0092NE 4 WARREN	7	7700456	SAIN V	05/04/1972	130	8	56				85-52-30		HOME
0092NE 4	1	7700461	CZYNI W	/ /	125	100	STEEL				35-41-08 85-51-28	S	00221 HOME
WARREN	•		SAIN V	09/20/1972 / /	100 80	4 70	58 STEEL				35-41-08	S	00221
0092NE 4 WARREN	1	7700365	SHOEMAKE I.	08/20/1970	100	10	70				85-51-28		HOME
0092NE 4	٠	7706460 *	renpenny J	/ /	80	50	STEEL			GOOD			00221 HOME
WARREN	•	, , , , , , , , , , , , , , , , , , , ,	I PINE PINE 3	03/16/1972 / /	98 85	8 60	58 STEEL				35-40-06	s	00221
0092NE 5 WARREN		700456 E	BURCK C	06/14/1972	123	10	40				85~51-24		HOME
0092NE 5	17	700847 H	ALEJACK	10/00/	100	80	STEEL				35-41-20 85-48-31		00221 HOME
		H	D BETWEEN OLD	/ /	96 75	10 75	41 STEEL	OPEN 41 -	96	GOOD			00600
0092NE 5 WARREN	90	001257 H	OLDER RALP	04/10/1990	60	10	20			300D			COMM
0092NE 5	17				45	4	STEEL			3000			00600 HOME
WARREIN				1 1	103 93	5 88	73 STEEL			300D 3	35-41-19 35-48-24		0180
0092NE 5 WARREN	92	002103 M D	ILLSLOYD	06/11/1992 / /	105	4	41	OPEN		OTHR	55-48-24		HOME
0092NE 5	17	700852 Ni	EWBY 7.0		64	63	STEEL	102 - 10	05	× 1111		Y 1	10068 TRR
WARKEN		J.	24 2 K	. /	105 35	25 30		OPEN 41 10		OOD	• -		8900
COSSIVE 5 WARREN	17	13 PF900\ LA	SWBYJ.C	06/30/ 1988 / /	165 75	20	41 (OPEN 41 - 16	G	200	• =	C	RR 0068 RR

QUAD / NY		OWNER'S NAME LOCATION ROAD									
0092NE 5 WARREN	17700873	NEWPORTCHAR		265 125	3 80	42 STEEL	OPEN 42 ~ 265	OTHR	<u> </u>	Y	00008 IRR
0092NE 5 WARREN	17700874	NEWPORT CHAR OLD DAY LIGHT		165 75	10 65	28 STEEL	OPEN 28 - 165	OTHR	- -	Y	00008 IRR
0092NE 5 WARREN	92000283	PRATERKELL DAYLIGHT	10/18/1991	125 120		42 STEEL	OPEN 42 - 125	BAD	 	N	00008 FARM
0092NE 5 WARREN	92000284	PRATERKELL DAYLIGHT	10/19/1991	205 145	0 	49 STEEL	OPEN 49 - 205	OTHR	 	Y	00008 FARM
0092NE 5 WARREN		RIGSBY FRED	05/13/1986	205 165	15 120	20 STEEL	OPEN 20 - 205	OTHR		Y	00008 FARM
0092NE 5 WARREN	17700366	TAYLOR L	08/05/1970	100 70	8 70	40 STEEL		GOOD	35-41-04 85-49-06	S	HOME
0092NE 6 WARREN	17700484		/ /19 / /						35-40-41 85-52-55	s	FARM
0092NE 6 WARREN	17700259	AVALON CHEESE CO	12/06/1968	92 70	30 30	65 Steel	~ ~-	BAD	35-40-28 85-45-33	S	00055 IND
0092NE 6 WARREN	17700260	AVALON DAIRIES	12/14/1968	210 200	40	71 STEEL		BAD	35-41-39 85-45-39	S	00055 IND
0092NE 6 WARREN	17700106	CARAHAN A	07/24/1965	122 100	7 97	34 STEEL		GOOD	35-42-02 85-45-20	S	00221
0092NE 6 WARREN	17700863	CHURCH_OF_JESUS	12/30/1988	225 100	30 	51 STEEL	OPEN 51 - 225	GOOD	 	Y	00001 IRR
0092NE 6 WARREN	17700707	FANNBRAT	09/18/1986	99 42	10 90	43 PLAST	41 - 43	GOOD		Y	00600 OTHR
0092NE 6 WARREN	17700690	MARTINJAME J CAR WASH SMIT	05/21/1986	115 100	75 65	42 STEEL	OPEN 42 - 105	OTHR		Y	00008
0092NE 6 WARREN	91000713	MARTINSTAN	03/01/1991	60 50	10 48	24 STEEL		GOOD		Y	00600 OTHR
0092NE 6 WARREN	17700059	PELHAM D	07/30/1964	129 123	8 115	48 STEEL		GOOD	35-40-11 85-45-53	S	00221
0092NE € WARREN	17700238	ROSS B	08/02/1968	120 95	40	24 STEEL		BAD	35-40-28 85-46-12	S	00055 HOME

						~		(00)21	NE) TN.			
		M OWNER'S NAME LOCATION ROAD			TOT YIELD	CSE DEPT	H WELL FI	NISH L	WAT QUAI TAG NUM	LATITUDE	E A,	/C DRILLER XG USE
0092NE 6 WARREN	1770008	2 ST CATHERINE CHU	RCH 10/09/1964	75 		37						
0092NE 6	9200270	9 TRIVETT	•		~ -	STEEL				35-42-10 85-45-55	S	00217 MDOM
WARREN		HWY 55	LOY 06/11/1992 / /	95 45	54 45	29 STEEL	OPEN 29 -	95	H2S			00008
0092NE 7 WARREN	9200268	9 AMERICAN TREE NUR	04/22/1992	105	_		2,7 -	93			Y	IRR
MARKEN		HWY 55	/ /	35	2 30	29 STEEL	OPEN		GOOD	- <u>-</u>		00008
0092NE 7	9200269	AMERICAN TREE NUR			3.0	SIEEL	29 ~	105			Y	IRR
WARREN		HWY 55	SE 04/23/1992 / /	85 28	5 25	20	OPEN		GOOD	~ ~	•	
0092NE 7	17700061	י מוגום (20	25	STEEL	21 -	85			Y	80000
WARREN		BLAIR A		88	12	73					1	IRR
0092NE 7	17700600	DOWN	/ /	80	65	STEEL	~	~-	GOOD	35-38-46 85-50-25	S	00221
WARREN	17700086	BOYD JO	E_ 07/02/1985	85	3.5	32				05-50-25		
		IIII 33 BHARTT S	/ /	65	20	STEEL	OPEN 32 -		OTHR			80000
0092NE 7	17700060	DENTON J	07/16/1064			21455	32 -	85			Y	IRR
WARREN		_	07/16/1964 / /	53	10	34			2005			
0092NE 7	177000		′ ′	40	30	STEEL				35-38-43	S	00221
VARREN	17700181	HART L	01/24/1967	66	15					85-50-39		
			/ /	63	30	62			GOOD	35-38-43		0000
092NE 7	17700268	HERRAN D			30	STEEL				85-51-12	ے	00221
VARREN		HEMMAN D	04/19/1969	102	6	60						
.000			/ /	75	50	OTHER			GOOD	35-38-16	S	00022
092NE 7 ARREN	17700576	MIX T.	08/31/1980	85			- -			85-51-25		FARM
ARKEN			/ /	80	20	40			GOOD .	35 30 14		
092NE 7	17700643	V 0 00000	•	80	40	STEEL				35-38-14 35-51-08	S	00008
ARREN		M_C_COUNTRY_CLU HWY 55	02/10/1984	225	40	27			,	33-31-06		HOME
		1141 33	/ /	45	4.5	STEEL	OPEN		GOOD			00008
092NE 7	93000529	SOUTHERN CENTRAL II	D 10 /04 /4		_	3,550	27 –	225		~ -	Y	HEAT
ARREN		HY 55	K 12/04/1992 / /	90	40	72	OPEN					
092NE 7			/ /	80	70	STEEL	72 ~	9.0	GOOD			80000
ARREN	17700421	STEWART F	02/17/1972	85	25			70			Y	IND
MAKELY			/ /	85 75	25	43			GOOD 3	5-48-50	_	0000
92NE 7	17700375	TODD		, ,		STEEL				5-48-50 5-50-42	-	80000
RREN	17700373	TODD W	05/12/1970	86	10	73			C	- 50-42		FARM
			/ /	80	40	/ 3			G00D 3	5-37-52	s	00221
92NE 7	17700298	/ICKERS	02 (00					~-		5-51-29	_	HOME
RREN			07/00/1969		20	45						
C245			/ /	75	30 5	STEEL				5-38-20	S	80000
92NE 7	17700299 \	ICKERS D	07/00/1969	100		_	-	~-	8:	5-51-13		FARM
RREN			/ /		40	53		1	BAD 34	- 20 20	_	
			, ,	112	S	TEEL		1	···-	5-38-20 s		80000
									83	5-51-13	ł	FARM

QUAD / NT	TH WELL NO	UM OWNER'S NAME 1 LOCATION ROAD	COMP DATE	TOT DEPTH	TOT YIELD	CSE DEDMI	Juri ex		-,			
		- HOCATION ROAD	INSPT DATE	AQ DEPTH	STAT LEVEL	CSE TYPE	INTERVAL	r P	WAT QUAL TAG NUM	LATITUDE LONGITUDE	A/C LOG	DRILLE
0092NE 7 WARREN	1770046	6 WALKER J C	01/20/1972	70	8		 -					
			/ /	63	40	36 STEEL	~~ -		GOOD	35-39-58 85-51-16	s	00221
0092NE 8 WARREN	1770022	5 CANTRELL B	04/15/1968	116	7	42						FARM
0092NE 8	1770026	7	/ /	95	85	STEEL			GOOD	35-37-53 85-48-52	S	00022
WARREN	1770026	7 HENNESSEE B	04/04/1969	95 73	4	54			BAD	35-37-51	c	00000
0092NE 8	1770049	9 ST JOHN C.D.	02/28/1973			STEEL				85-48-30	5	00098 FARM
NARREN		2.0.	02/28/19/3	117 105	50 70	50 STEEL			GOOD	35-39-12	s	00008
092NE 9 ARREN	9400192	BARNETT RAY	_ 06/13/1994	165	10			~-		85-47-54		COMM
092NE 9		MAIER TANK RD	/ /	108	100	83 STEEL	OPEN 83 -	165	GOOD		Y	00008
ARREN	1/700700	CITY_OF_MCMINNV HWY 27	10/31/1986	122		29	SCREEN		OTHR	~ -	Y	FARM
092NE 9	17700701	CITY_OF_MCMINNV		110	108	STEEL	112 -	122	OIDK		Y	00068 MON
ARREN	-	HWY - 27	10/31/1986 / /	73 63	4 37	63 STEEL	SCREEN		OTHR			00068
092NE 9 ARREN	17700702	CITY_OF_MCMINNV	10/31/1986	110			63 –	73				MON
092NE 9		HWY = 27	/ /	100	103	33 STEEL	SCREEN 100 -	110	OTHR			00068
ARREN	1//00/03	CITY_OF_MCMINNV HWY 27	10/31/1986	75 67		37	SCREEN		OTHR			MON
92NE 9	17700704	CITY_OF_MCMINNV			68	STEEL	65 –	75	5111 11			00068 MON
ARREN		HWY 27	10/31/1986 / /	85 	82	64 STEEL	SCREEN		OTHR		(00068
92NE 9 ARREN	17700708	JORDENVERN	06/10/1985	165	26		75 –	85				NON
		100	/ /		~-	29 STEEL	OPEN 29 -	165	OTHR			00044
92NE 9 RREN	1//00696	MARLINCLYD	08/15/1986	57	20	45	SLOT		GOOD	_	•	OME
92NE 9	17700709	MARLIN C::		43	25	STEEL	40 -	45	3000	;		O600 OME
RREN		108 HIGHWAY	08/09/1985 / /	50 46	10 25	40 g	SLOT		GOOD	~ -	0	0600
2NE 9 RREN	17700217	MCMINVILLE MFG CO	02/20/1967	63	8		40 –	46		7		OME
KEN			1 1	45		44 STEEL	~			5-39-22 s 5-47-17	-	0022
32NE 9 RREN	92002680	TRIVETTLLOY PEPPER BR		75	70	20 c	PEN			D-4/-1/	I	ND
2NE 9			/ /	30	30	STEEL	21 –	75	GOOD	Y		0008 RR
REN	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WALKERRAND	07/07/1988 / /		10		LOT		GOOD		-	0600
					50	STEEL	50 -	56		Y		RR

QUAD / NTE COUNTY	MELL NUM REG NUM	OWNER'S NAME LOCATION ROAD					TOT YIELD STAT LEVEL					WAT QUAL TAG NUM		TUDE ITUDE		
0092NE 9	17700842	WALKER	RAND	08/25	/1988	160	10	64	SLOT			OTHR		-		00600
WARREN		OLD VIOLA		/ .	/	59	130	STEEL	59	-	64		-	-	Y	IRR
0092NE 9	17700848	WALKER	_RAND	10/05	/1988	160	20	50	SLOT			FAIR	-	-		00600
WARREN		OLD VIOLA		/	/	50	135	STEEL	50	_	56		~	-	Y	IRR
0092NE 9	17700011	WINFREY C		10/15	/1963	135	6	38				BAD	35~3	8-15	s	00064
WARREN				/	/	27	108	STEEL					85 – 4	17-12		HOME
0092NE 9	17700638	WISEMAN	_HUGH	07/20	/1984	61	10	40	SLOT			GOOD	_	_		00600
WARREN		OLD VIOLA		/	/	40	18	PLAST	4() –	61		-	-	Y	IRR

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY RECORDS OF WATER WELLS IN SELECTED AREAS OF TENNESSEE

EXPLANATION OF COLUMN HEADINGS

QUAD/NTH - Designation by number, Quadrant and ninth of the 2.5 - minute quadrangle area in which the well is located. The leading numbers identify the 15-minute quadrangle, the next two letters identify the 7.5-minute quadrant and the last digit identifies the one-ninth subdivision of the latter.

COUNTY = County in which the well is located.

WELL NUM = Identification number assigned to the well by the State.

TAG NUM = An inspection number assigned to the well at the time of inspection by the State.

OWNER'S NAME = Name of person or organization for whom the well was drilled.

LOCATION ROAD = Name of street or road from which to access the well. Blank if unknown.

COMP DATE = Month, day and year the well was completed.

INSPT DATE = Month, day and year the well was inspected by TDHE. Blank if well has not been inspected.

TOT DEPTH = Total depth of the well in feet.

AQ DEPTH = Depth, in feet, below land surface to the top of the shallowest aquifer or water-bearing zone tapped by the well.

TOT YIELD = Total yield of the well in gallons per minute (gpm). Yields less than one-half gpm reported as zero.

STAT LEVEL = Static water-level: depth, in feet, from the land surface to the surface of the water standing in an idle well.

CSE DEPTH = Casing depth: depth, in feet, to the bottom of the water tight casing installed in the well.

CSE TYPE = Casing type: PLAST = Plastic; STEEL = Steel; OTHER = any other material such as concrete, fiberglass or tile.

WELL FINISH = Construction of the well in the interval supplying water to the well: OPEN = Uncased or open hole; SLOT = Hand perforated or slotted pipe; SCREEN = Manufactured device designed to maintain the wall of the borehole and allow ground water to enter the well.

INTERVAL = The depth, in feet, from the top to the bottom of the interval that is open to the well.

WAT QUAL = Water Quality: a word to describe the relative quality of the well water such as GOOD, FAIR, BAD, LIME, IRON,

SULFUR, SALT, OIL, GAS, OTHER.

GEO FORM = Name of the geologic formation tapped by the well (not generally reported).

LATITUDE = Latitude of well site in degrees, minutes, and seconds.

LONGITUDE = Longitude of well site in degrees, minutes, and seconds.

A/C = Accuracy Code for latitude and longitude: S = Nearest second; F = nearest 15 seconds; T = nearest 30 seconds;

M = nearest minute; Blank = nearest 2.5 minutes.

LOG = Refers to availability of drillers log: Y = yes; N = no.

DRILLER = License number of driller who supervised construction of the well. Names provided upon request.

USE = Purpose for which the well was constructed: HOME = residential; COMM = commercial; etc.

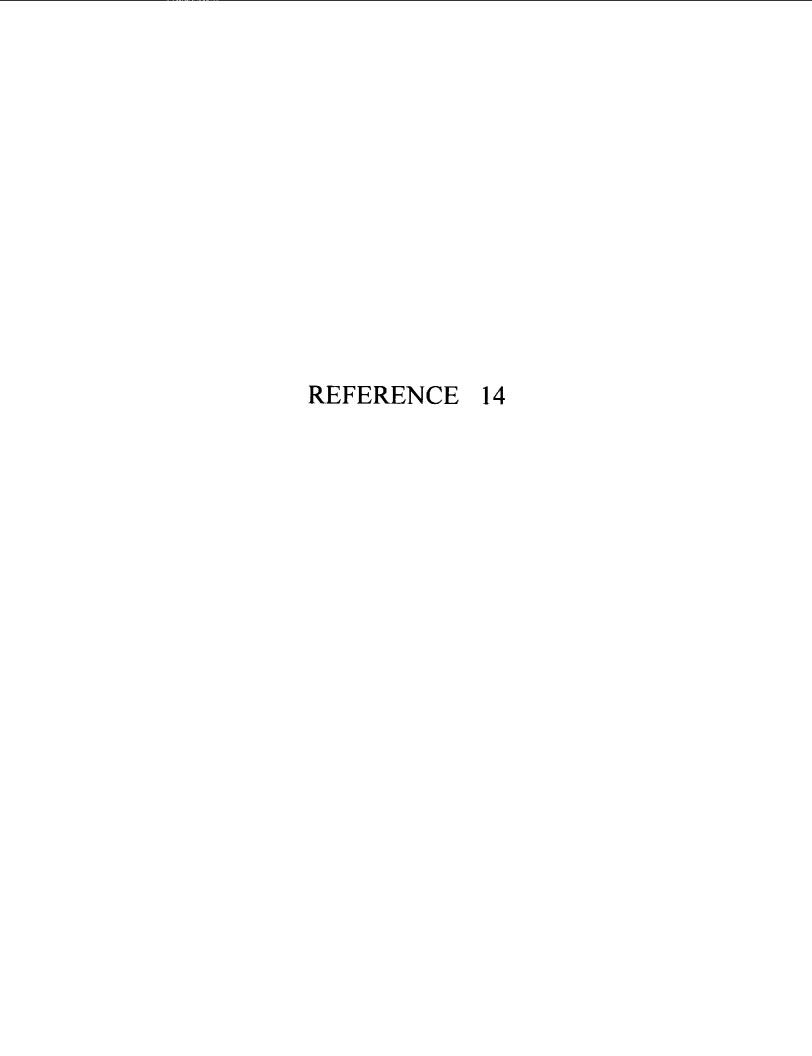
QUAD /	NTH	WELL NUM	OWNER'S NAME LOCATION ROAD	COMP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH	WELL FINISH INTERVAL	WAT QUAL TAG NUM	LATITUDE LONGITUDE	A/C LOG	DRILLER USE
0328NW WARREN	1		BROWN GARY FAULKNER SPRING	04/07/1986	105 89	15 76	78 STEEL	OPEN 78 - 105	OTHR	- <u>-</u>	Y	00008 HOME
0328NW WARREN	1	91000083	CRODYJAME GEORGE TR	12/01/1990	111 100	10 95	54 STEEL		GOOD		Y	00600 HOME
0328NW WARREN	1	17700689	GRIBBLELARR HWY #70	06/06/1985	185 120	10 70	51 STEEL	OPEN 51 - 185	OTHR	 	Y	COMM 00008
0328NW WARREN	1	17700685	JOHNSONSHEL PEYON HILL	09/23/1985	105 65	5 70	66 STEEL	OPEN 66 - 105	OTHR		Y	HOME
0328NW WARREN	2		EASTSIDE NURSERY HWY 70	07/13/1992	145 80	40 42	62 STEEL	OPEN 62 - 145	OTHR	 	Y	00068 IRR
0328NW WARREN	2	17700038	GRIBBLE A	12/19/1963	184 184	7	79 STEEL			35-44-30 85-41-38	S	00049 HOME
0328NW WARREN	2	91003523	GRIBBLELARR HWY 70S	08/27/1991	145 125	80 80	76 STEEL	OPEN 76 - 145	OTHR		Y	00068 IRR
0328NW WARREN	2	90002389	GRIBBLENEWT SUNNY VALD DR		63 39	100 3	53 STEEL	OPEN 54 - 63	OTHR		Y	00068 IRR
0328NW WARREN	2	17700037	GRIFFLE R	01/21/1964	192	51 174	77 STEEL		GOOD	35-44-37 85-41-33	s	00049 HOME
0328NW WARREN	2	92002944	JIM SLATTEN NURSERY HWY 288	07/14/1992	227 145	10 100	62 STEEL	OPEN 62 - 227	OTHR	 	Y	00068 IRR
0328NW WARREN	2	17700846	MASONCHRI MILK RD	10/29/1988	188 100	2 80	29 STEEL	OPEN 29 - 188	FAIR	- -	Y	00600 FARM
0328NW WARREN	2	93000498	MASONCHRI	09/11/1992	225 115	5 90	84 STEEL	OPEN 84 - 225	H2S		Y	00008 FARM
0328NW WARREN	2		TENNESSEE STATE CRO CADALLIC LAYNE	03/17/1993	250 	0 0	33 STEEL	OPEN 33 - 250	OTHR	 	Y	00008 IRR
0328NW WARREN	_		TENNESSEE STATE CRO CADALLIC LAYNE	03/12/1993	250 65	29 50	44 STEEL	SLOT 44 - 250	H2S		Y	00008 IRR
0328NW WARREN	2	93003662	TENNESSEE STATE CRO CADALLIC LAYNE	03/11/1993	250 45	29 35	44 STEEL	OPEN 44 - 250	GOOD	 	Y	00008 IRR
032BNW WARREN	2	92002693	WALKERLARR HWY 30	04/30/1992 / /	165 105	60 80	77 STEEL	OPEN 77 - 165	GOOD	 	Y	00008 IRR

QUAD / COUNTY	нти		OWNER'S NAME LOCATION ROAD					WELL FINISH INTERVAL		LATITUDE LONGITUDE		
0328NW WARREN	3	17700033		02/15/1964	78 60	40 0 55	57 STEEL		GOOD	35-43-20 85-39-46	S	00180 HOME
0328NW WARREN	3	17700706	MCDOWELLWILB	09/30/1986	79 60	10 64	37 STEEL	37 - 79	GOOD		Y	00600 HOME
0328NW WARREN	3	93003591	MORTONS HORTICULTUR HWY 56	07/25/1993	65 37	9 30	23 STEEL	OPEN 23 - 65	GOOD	 	Y	00008 IRR
0328NW WARREN	3	91001813	YOUNGFARR SPRINGS VALLEY		1 4 5 70	25 65	42 STEEL	OPEN 42 ~ 145	UNK		Y	00008 IRR
0328NW WARREN	4	17700291	CARTWRIGHT O	07/00/1969 / /	123 115	15 90	91 STEEL		GOOD	35-40-11 85-43-14	S	00008 FARM
0328NW Warren	4	17700885	DAVISGEOR 188 HIGHWAY	06/23/1989	108 90	90	20 STEEL	20 - 90	GOOD	 	Y	00600 HOME
0328NW Warren	4	17700053	FARRIS G	06/20/1964	111 90	5 70	82 STEEL		GOOD	35-40-08 85-43-28	s	00180 HOME
0328NW WARREN	4		UNIV OF TN RESEARCH CADILAC LANE	03/26/1992	225	0	49 STEEL	OPEN 49 - 225	OTHR	35-42-26 85-44-39		00008 TEST
0328NW WARREN	4	92002691	UNIVERSITY OF TN RE	05/12/1992	225 48	12 40	28 STEEL	OPEN 28 - 225	H2S	35-42-22 85-44-43		00008 IRR
0328NW WARREN	5		COLLIARJOHN CARDWELL	09/21/1990	185 75	60 70	73 STEEL	OPEN 73 ~ 185	H2S	- -	Y	00008 IRR
0328NW WARREN	5	17700232	CUTRELL E	05/30/1968	130 120	7 90	74 STEEL		GOOD	35-42-25 85-42-10	S	00022 HOME
0328NW WARREN	5	17700668	HALEE_C_ HWY 70	08/15/1985	143 130	5 70	69 STEEL	OPEN 69 - 143	BAD		Y	00571 HOME
0328NW WARREN	5		LUSKBILL MCGEE RD	06/28/1988	185 155	4 96	62 STEEL	OPEN 63 ~ 185	GOOD	 	Y	00068 FARM
0328NW WARREN	5	17700229	MAYFIELD C	06/07/1968	145 140	10 100	64 STEEL		BAD	35-42-11 85-42-14	ŝ	00022 HOME
0328NW WARREN	5	17700800	MOFFETBARB	06/29/1988 / /	185 95	75 80	41 STEEL	OPEN 41 - 185	GOOD		Y	00068 FARM
0328NW WARREN	6	17700360	FUSTON B	04/23/1971	173 140	8 70	42 STEEL		GOOD	35-40-16 85-39-40	S	00221 HOME

QUAD / COUNTY	нти		OWNER'S NAME LOCATION ROAD					WELL FINISH INTERVAL		LATITUDE LONGITUDE		
0328NW WARREN	6	17700352	GRISSOM C	/ /19 / /	93 80	10 50	56 STEEL	~ ~ -	GOOD	35-42-08 85-39-13	S	HOME
0328NW WARREN			MCDOWELLWIL_ PLEASANT COVE		165 100	35 95	84 STEEL	OPEN 84 - 165	OTHR		Y	00008
0328NW WARREN		17700220	SCHAFFER R	03/30/1968	120 115	11 	54 STEEL			35-42-14 85-39-36	s	00055 HOME
0328NW WARREN		17700693	SIMMONSANTH	03/12/1986	185 70	1 72	20 STEEL	OPEN 20 - 185	GOOD	 	Y	00008 HOME
0328NW WARREN		90001713	AUSTINJESS #8 EAGLE NEST	06/25/1990	126 27	100	20 STEEL	~	OTHR		Y	00572 HOME
0328NW WARREN		91000312	DYKESCORD HWY 8 RD	12/11/1990) 105 95	100 40	84 OTHER	OPEN 84 - 105	OTHR	 	Y	00068 IRR
0328NW WARREN		91001743	DYKESCORD FAIRVIEW UNION	06/04/1995	84 75	65 50	61 STEEL	OPEN 61 - 84	OTHR	<u> </u>	Y	00068 IRR
0328NW WARREN		90001714	GUYCOY_ #8	06/26/1990	146 80	15 	20 STEEL	OPEN 20 - 146	OTHR	 	Y	00572 FARM
0328NW WARREN		17700764	HARPERJESS	11/18/198	7 167 140	20 	20 STEEL	SLOT 47 - 82	OTHR		Y	00572 HOME
0328NW WARREN		17700763	HENNESSEEJ_L_ #8	11/20/198	7 227 175	9	20 STEEL	OPEN 20 - 227	OTHR	<u> </u>	Y	00572 HOME
0328NW WARREN		17700292	HILLIS H	07/00/1969	9 124 118	20 80	91 STEEL		GOOD	35-38-10 85-43-05	S	00008 FARM
0328NW WARREN			MILSTEADLONN	12/23/198	205 130	5 90	20 STEEL	OPEN 20 - 225	OTHR	 - -	Y	00008 HOME
0328NW WARREN		17700088	SPENCER M	10/30/196	4 84 74	10 70	34 STEEL		GOOD	35-39-34 85-44-40	S	00217 HOME
0328NW WARREN		17700836	WALKERRANE	06/30/198	82 70	10 70	23 STEEL	OPEN 23 - 82	GOOD	 	Y	00600 IRR
0328NW WARREN		91001863	WRIGHT BROS CONSTRU HWY 56	07/07/199	350 140	3 145	67 STEEL	OPEN 67 - 350	H2S	 	Y	00008
0328NW WARREN		91001864	WRIGHT BROS CONSTRU HWY 56	07/06/199	225 145	10 60	42 STEEL	OPEN 42 - 225	H2S		Y	00008

\ CAUQ YTMUOD			OWNER'S NAME LOCATION ROAD					WELL FINISH INTERVAL		LATITUDE LONGITUDE		
0328NW WARREN		91001865	WRIGHT BROS CONSTRU HWY 56	07/05/1990	370 		OTHER		OTHR		Y	00008 IND
0328NW WARREN		17700465	FULTS G	07/08/1972	123 100	7 50	38 STEEL		GOOD	35-37-43 85-41-10	S	00221 номе
0328NW WARREN		TN001735		/ / 10/14/1989				-	001735	35-39-25 85-42-25	S	
0328NW WARREN	-	17700116	MANDREL CORP	05/00/1965	44	~- ~-				35-39-36 85-41-21	S	00167 TEST
0328NW WARREN	-	17700117	MANDREL CORP	05/00/1965	47 45	2				35-39-35 85-41-20	S	00167 TEST
0328NW WARREN		17700111	MANDREL INC CORP	06/00/1965	250 					35-39-35 85-41-25	s	00167 TEST
0328NW WARREN		17700112	MANDREL INC CORP	06/00/1965	50 					35-39-40 85-41-25	S	00167 TEST
0328NW WARREN		17700113	MANDREL INC CORP	06/00/1965 / /		~-				35-39-39 85-41-24	S	00167 TEST
0328NW WARREN		17700114	MANDREL INC CORP	06/00/1965	42 	~~				35-39-38 85-41-23	s	00167 TEST
0328NW WARREN		17700115	MANDREL INC CORP	06/00/1965	4 4 		~-	-2 2		35-39-37 85-41-22	S	00167 TEST
0328NW WARREN		17700875	MYERS_COVE_NURS MYERS COVE	07/10/1988	105 	0 0	46 STEEL	OPEN 46 - 105	OTHR		Y	00008 IRR
0328NW WARREN		17700876	MYERS_COVE_NUR_ MYERS COVE	07/11/1988	215 90	12 90	88 STEEL	OPEN 88 - 215	OTHR		Y	00008 IRR
0328NW WARREN		17700729	STOKERRENE CUMBERLAND CAVE	06/24/1987	63 44	8 52	41 STEEL	SLOT 41 - 63	GOOD		Y	00571 HOME
0328NW WARREN		17700834	TURNERBILL MYERS COVE	07/12/1988	78 65	10 63	62 STEEL	OPEN 62 - 78	GOOD		Y	00600 HOME
0328NW WARREN		91002831	BLACKRAND #8 SIDE	08/01/1991	249 70	1	20 STEEL	OPEN 20 - 249	OTHR		Y	00572 HOME
0328!IW WARREN		92002700	CANTRALLTERR	04/03/1992	165 43	2 40	20 STEEL	OPEN 20 - 165	GOOD		Y	00008 HOME

YTMUOD /	нти	WELL NUM	OWNER'S NAME LOCATION ROAD		COMP DATE	TOT AQ	DEPTH DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH	WELL FINI INTERVAL	SH	WAT QUAL	LATI'	TUDE ITUDE	A/C LOG	DRILLER USE
0328NW WARREN		90000236	CAPSHAWJA LONG MT	ME	11/20/1989		85 20	10 10	58 STEEL	OPEN 58 -		OTHR	<u>-</u> -	-	Y	00068
0328NW WARREN			CAPSHOWKE		01/17/1987	_	15 80	30 80	20 STEEL			OTHR	-	- -	Y	00600 HOME
0328NW WARREN		92000263	COX JO	E_	09/05/1991	1	45 80	1 80	20 STEEL	OPEN 20 -	145	FAIR		-	Y	00008 HOME
0328NW WARREN			GRIZZELLGR LONE MOUNTAIN				65 40	4 60	20 STEEL	OPEN 20 -	165	OTHR	-	-	Y	00068 HOME
0328NW WARREN	-	92002939	HICKSHO	ME	08/03/1992	_	27 25	1 120	49 STEEL	OPEN 49 -	227	OTHR	-	- -	Y	00068 HOME
0328NW WARREN			HICKS HO LONE MOUNTAIN R				27 25	1 115	41 STEEL	OPEN 41 -	227	OTHR	-	-	Y	00068 HOME
0328NW WARREN		90003353	JOSLINGE				52 75	2	20 STEEL	OPEN 20 -	352	IRON	-	- =	Y	00572 HOME
0328NW WARREN			MARTINRO				.39 80	- - 70	20 STEEL	OPEN 20 -	139	GOOD	-	<u>-</u>	Y	00600 HOME
0328NW WARREN		92000777	PANTERVI NO 8 HIGHWAY				.32 40	5 25	20 STEEL	OPEN 20 -	132	GOOD	-	<u>-</u>	Y	00600 HOME
0328NW WARREN			ROBERTS LA				.50 30	3 5	20 STEEL			GOOD	-	<u>-</u> -	Y	00600 HOME
0328NW WARREN			SIMMONE EL				142 .25		20 STEEL	OPEN 20 -	342	GOOD	-		Y	00571 HOME
0328NW WARREN		91000951	SMARTTJO	НИ	03/16/1991	1	.50 50	3 50	20 STEEL			GOOD	<u>-</u>	-	Y	00600 HOME
0328NW WARREN			SMITHJA				. 63 75	2 65	69 STEEL	OPEN 69 -	163	GOOD	-	- -	Y	00571 HOME
0328NW WARREN		93000693	STOTTS LA	RR	12/31/1992		41	10 20	20 STEEL	OPEN 20 -	141	GOOD	- -	-	Y	00600 HOME
0328NW WARREN	9	93004333	WALKERJC	ΥC			. 85 85	0 165	20 STEEL	OPEN 20 -	185	GOÓD	- -	-	Y	00008 HOME



DIRECTORY OF

TENNESSEE INDUSTRIES

1969



EXECUTIVE OFFICE—STATE OF TENNESSEE
STAFF DIVISION FOR INDUSTRIAL DEVELOPMENT
Cordell Hull Building
Nashville, Tennessee 37219

MAYNARDVILLE (668)

Union County

Union County Times (A)
Main Office: Claiborne
Publishing Co., Inc., New
Tazewell, Tenn.
1952
Newspaper (2711) and
commercial printing (2751)
CLYDE C. LEMARR, JR., Ed., Pub.,
Corp.

McEWEN (1,150)

Humphreys County

Standard Concrete Pipe Co. (A)
Route 3 37101
1947
Concrete pipe (3272)
HARRY NICHOLSON, Owner, Prop.

McKENZIE (4,580)

Carroll and Weakley Counties

Brown Shoe Co. (D)
Hwy. 79 S. 38201
Main Office: Clayton, Mo.
1963
Leather and imitation material
shoes (3141)
Joe Hurt, Plant Supt., Corp.

Fitzgerald Lumber Co. (A)
211 Bell St. 38201
1959
Rough lumber and ties (2421)
C. C. FITZGERALD, Mgr., Part.
PAUL FITZGERALD, P. A.

Gaines Mfg. Co., Inc. (D)
Hwy. 79 38201
1958
Upholstered furniture (2512)
WENDELL MANNER, Plant Mgr.,
Corp.
HAROLD BLAKEMORE, P. A.

Keco Milling Co.—Div. Martha
White Foods, Inc. (C)
P. O. Box 40 38201
Main Office: Nashville, Tenn.
1935
Dog and livestock feeds (2042)
and corn meal (2041)
JERRY V. KING, Plant Mgr., P. A.,
Corp.

McKenzie Banner, The (A)
P. O. Box 100 38201
1870
Newspaper (2711) and
commercial printing (2751)
KARL BARLOW AND JAMES
WASHBURN, Pub., Part.

McKenzie Block Co. (A)
Hwy. 79 S. 38201
1955
Concrete blocks (3271) and
ready-mixed concrete (3273)
N. H. HANSEN, Pres., Corp.

McKenzie Boat Mfg. Co. (B)
P. O. Box 10 38201
1952
Aluminum boats (3732)
J. E. GINTER, JR., Pres., P. A.,
Corp.

McKenzie Wood Products Co.,
Inc. (D)
Highway 79 38201
1958
Main Office: Gaines Mfg. Co.,
McKenzie, Tenn.
Wood furniture frames (2512)
LLOYD McDIVITT, Plant Mgr.,
Corp.
HAROLD BLAKEMORE, P. A.

Southern Star Lumber Co., The (B)
420 Magnolia Ave.
P. O. Box 429 38201
1915
Hardwood lumber (2421)
ROBERT H. SMITH, Owner, Prop.
J. C. PALMER, P. A.

McKENZIE (Cont'd)

West Tennessee Dairy Products Co. (A) 922 N. Paris Pike 38201 1950 Ice cream (2024) and ice milk mix (2023) JOHN R. PUTMAN, Mgr., P. A., Part.

Wilker Bros. Co., Inc. (D)
Robinsfield Rd. 38201
Main Office: New York, N. Y. 1948
Pajamas (2341) and robes
(2384)
IRVING BLUMENTHAL, Vice Pres.,
Corp.
E. MINKOFF, P. A.

McMINNVILLE (10,479)

Warren County

Burroughs-Ross-Colville Co. (D)
P. O. Box 610 37110
1873
Wood products (2499)
W. B. Whitson, Pres., Gen. Mgr.,
Corp.
Clyde Habdison, P. A.

Carrier Air Conditioning Co. (A)
P. O. Box 104 37110
Main Office: Carrier Corp.,
New York, N. Y.
1968
Commercial air conditioning
units (3585)
WILLIAM E. HOOD, Plant Mgr.,
Corp.
ROBERT S. YOUNGLOVE, P. A.

Century Electric Co. (E)
204 Red Rd. 37110
Main Office: St. Louis, Mo.
1960
Electric motors (3621)
ROBERT J. BATHE, Plant Mgr.,
Corp.

Cumberland Lumber & Mfg. Co., Inc. (D) P. O. Box 450 37110 1945 Hardwood flooring, moulding and trim (2426) Ray Spivey, Pres., Corp. HERMAN Spivey, Treas., P. A.

Dezurik Southern Corp. (D)
Belmont Dr. 37110
Main Office: Sartell, Minn.
Stainless steel industrial type
valves (3494)
E. F. GRISWOLD, JR., Plant Mgr.,
Corp.
GEORGE DEARMOND, P. A.

Formfit Rogers (D)
919 Sparta St. 37110
Main Office: Genesco, Inc.,
Nashville, Tenn.
1941
Lingerie and foundation
garments (2341)
R. D. Abrams, Plant Mgr., Corp.

Genesco, Inc. (D)
300 Garfield 37110
1946
Leather shoes (3141)
Main Office: Nashville, Tenn.
CLYDE MILLER, Plant Supt., Corp.
COLLIER SMITH. P. A.

Kingsboro Textile Co. (B)

Sparta St. 37110

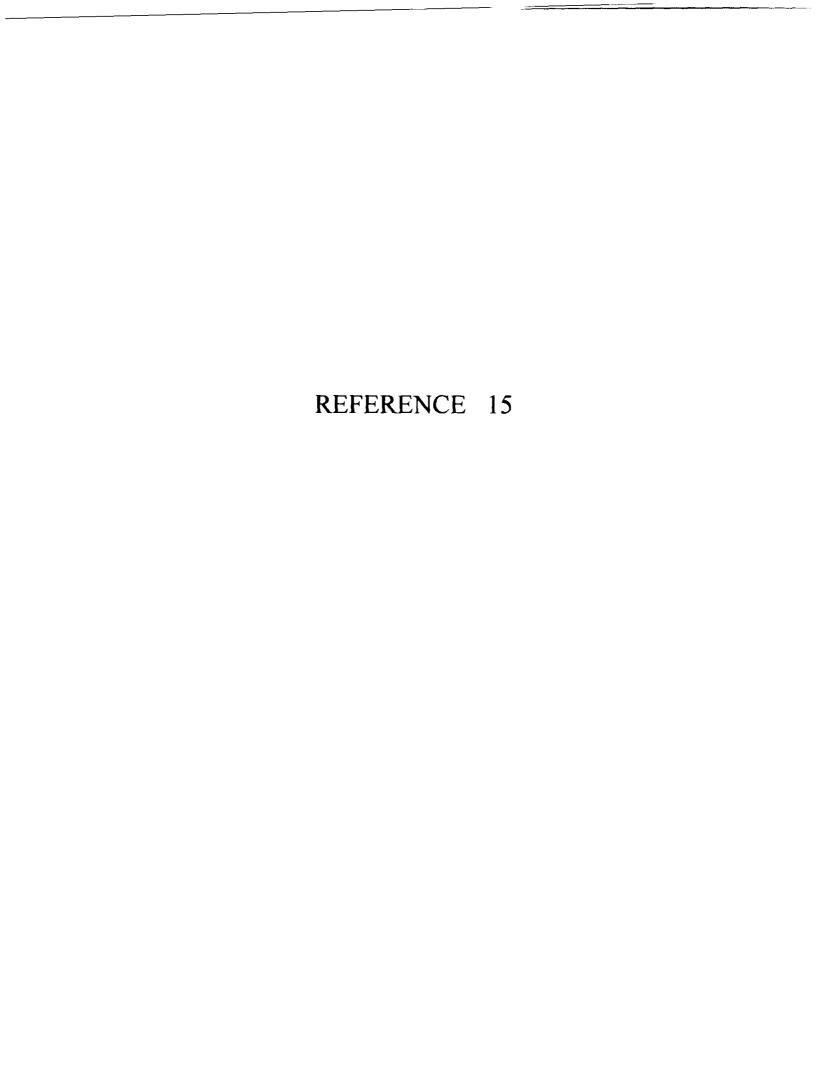
Main Office: Genesco, Inc.,
Nashville, Tenn.
1965

Nylon (2221) and cotton
fabrics (2211)

W. A. Goody, Plant Supt., Corp.

Lambert & Lambert Stone Co., Inc., Plant 2 (A)

Viola Rd., Route 3, P. O. Box 466
37110
1965
Crushed limestone (1422) and
agricultural lime (3274)
JERALD LAMBERT, Mgr., Corp.



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

DATE: 1/21/84

TIME: 8:35 am

SUBJECT: Complaint

TO: Complaint
FROM: Tim Stewart, TDSF

RE:

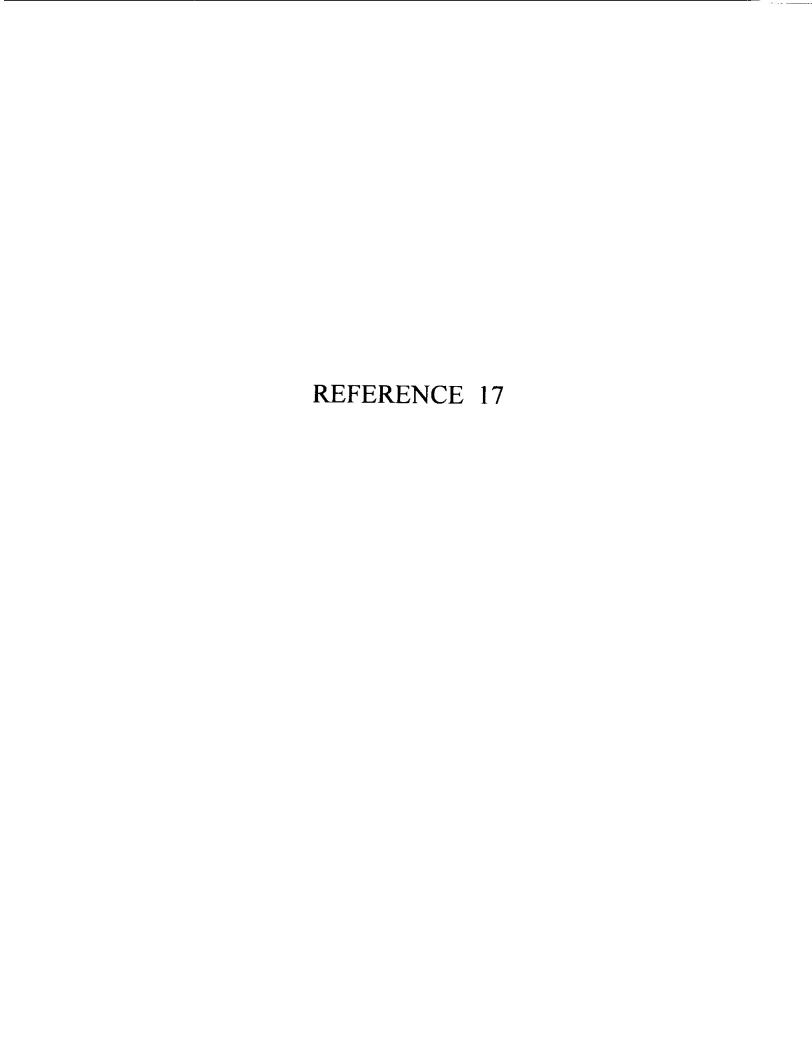
Person reported a very strong odor of # 2 Fact Oil or Diesel in Red Exprings in Mc Minnville, Person indicated location on topo map (see attacked).
in Red Laines in Mc Minnille. Person indicated locates on topo mas
(All allassy)
I'm Stewart
1/21/94
all 45T personnel me at conference in Gatlinhung. Recentionist
all UST personnel me at conference in Dathinhung. Receptionist at UST co is trying to notify them (to call me).
Notified fory Holland of WPC of situation (8:50am)

REFERENCE 16

No. County								
Chate County							•	•
RANK COUNTY		-	_		•			
Lake County. 9,343 920 23,491 893 8,423 22,598 22,598 Lawrence County. 14,229 891 35,303 311 13,338 34,992 22,528 Lawrence County. 11,902 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,902 11,902 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,1803 2,208 2,584 Loudon County. 11,803 2,208 2,584 Loudon County. 11,803 2,200 27,982 2,467 29,603 16,331 24,100 24,660 215 29,213 24,645 2,57 Marphall County. 8,909 641 21,539 291 8,268 21,248 22,57 Mary County. 3,689 593 8,033 112 2,996 7,821 2,64 Monroe County. 13,809 2,208 Monroe County. 13,809 1,403 1,203 2,808 10,483 11,203 2,906 7,821 2,64 Monroe County. 13,809 1,403 1,203 2,808 1,403 1,203 2,808 1,403 1,203 2,808 1,403 1,203 2,808 2,104 2,808 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,906 2,104 2,10		Units	Onits	Population	Population	Honsepolds	Hodeeholds	Household
Lake County. 9,343 920 23,491 893 8,423 22,598 24.68 Lawrence County. 14,229 891 35,303 311 13,338 34,992 22,62 Lewis County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,021 28,157 247 10,881 27,910 2,57 Loudon County. 11,802 1,022 28,153 28,121,155 30,226 2,54 Loudon County. 11,803 1,282 2,283 2,883 2,	Knox County	143,582	9,943	335,749	12.349	133,639	323.400	2.42
Lauderdale County, 9,343 920 23,491 893 8,423 22,598 2.68 Lawrence County, 14,229 891 35,303 311 13,308 34,992 2.65 Lewis County, 11,902 1,021 28,157 247 10,891 27,910 2.57 Loudon County, 11,902 1,022 28,157 247 10,891 27,910 2.57 Loudon County, 12,958 840 31,255 329 12,155 30,926 2.56 Linceln County, 12,958 840 31,255 329 12,155 30,926 2.54 Loudon County, 19,964 10,891 32,991 22,991 32,991	•	2,610	192	7,129	•	•	•	- · · · ·
Lawrence County.		9,343	920	•	- · -		•	
Lewis County. 3,943 410 9,247 149 3,533 9,098 2,558 Lincoln County. 11,902 1,022 28,157 247 10,881 27,910 2,557 Loudon County. 12,995 840 31,255 279 12,155 30,926 2,56 McMairy County. 9,734 900 22,422 242 8,834 22,180 7.51 McMairy County. 9,734 900 22,422 242 8,834 22,180 7.51 McMairy County. 9,734 900 22,422 242 8,834 22,180 7.51 McMairy County. 9,734 900 22,422 242 8,834 22,180 7.51 McMairy County. 9,734 900 22,422 242 8,834 22,180 7.51 McMairy County. 9,734 900 77,982 2,467 29,609 75,515 24,645 2.57 Maison County. 9,734 900 77,982 2,467 29,609 75,515 22,57 Mairon County. 9,734 900 72,485 2,187 2,	-	14.229	891	35.303			•	
Lincoln County. 11,902 1,021 28,157 247 10,881 22,910 2.57 Loudon County. 12,995 840 31,255 239 12,155 30,926 2,54 McMinn County. 17,616 1,265 42,383 673 16,351 41,710 2.55 McMarry County. 6,879 720 15,906 89 6,159 15,817 2.57 Macion County. 10,011 796 24,860 215 9,215 24,645 21,610 20,51 Macion County. 10,011 796 24,860 215 9,215 24,645 2.67 Marion County. 22,288 1,678 54,812 739 20,608 84,073 2.62 Marchall County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 641 21,559 291 8,268 21,246 2.57 Mary County. 3,899 1,440 8,809 21,445 39,816 2.72 Moore County. 3,7233 2,888 100,488 6,982 31,412 39,916 2.72 Moore County. 1,912 178 4,414 2.72 Morgan County. 6,378 537 17,300 1,289 5,841 16,011 2,74 Moore County. 7,388 654 17,636 201 6,734 17,435 2.59 Morry County. 7,388 654 17,636 201 6,734 17,435 2.59 Morry County. 2,253 467 4,548 54 1,786 4,494 2.52 Pickett County. 2,253 467 4,548 54 1,786 4,494 2.52 Pickett County. 3,232 57 13 6,612 152 2,512 6,460 2.57 Pickett County. 3,3359 56 567 13,643 105 5,092 13,538 2.66 Putnam County. 3,343 1,417 1,664 51,373 2,954 19,153 48,419 2.46 Morry County. 3,343 1,417 1,664 51,373 2,954 19,153 48,419 2.46 Morry County. 3,353 1,417 1,417 1,664 51,373 2,954 19,153 48,419 2.46 Morry County. 3,350 2,66 Putnam County. 3,350 2,36 2,57 Pickett County. 3,350 2,36 2,57 Pickett County. 3,350 2,350	•	•	410	•			•	
Loudon County. 12,995 840 31,255 329 12,155 30,926 2,54 McMaint County. 17,616 1,265 42,393 673 16,351 41,710 2,55 McMairy County. 9,734 900 22,472 242 8,834 22,180 2.51 McMairy County. 31,809 720 15,906 89 6,199 15,817 2,57 Madison County. 31,809 2,200 77,982 2,467 29,609 75,515 2.55 Madison County. 8,908 16,193 15,817 2,57 Madison County. 8,908 16,183 21,239 21,465 21,59 21,52 4,645 26,7 Marian County. 8,908 16,183 21,539 21,180 22,180 22,180 21,180 22,180 21,180 2		•	1.021	•			•	
McMainr County. 17,616 1,765 42,382 573 16,351 1,710 2.55 MeaCon County. 6,879 720 15,906 89 6,199 15,817 2.51 Macion County. 10,011 796 24,860 215 9,215 24,645 2.55 Marion County. 10,011 796 24,860 215 9,215 24,645 2.67 Mary County. 22,286 1,678 54,812 739 291 8,268 21,248 2.57 Maury County. 22,286 1,678 54,812 739 20,608 54,073 2.68 Morre County. 12,883 8,033 8,033 112 2,996 7,921 2.64 Moore County. 13,833 1,460 30,538 6,011 11,363 29,400 2.53 Moore County. 6,378 537 17,300 1,289 5,841 16,011 2.74 Morgan County. 7,388 664 17,636 201 <td></td> <td></td> <td>,</td> <td>• • • •</td> <td></td> <td>•</td> <td>•</td> <td></td>			,	• • • •		•	•	
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Rutherford County.	Robertson County,,	15,823	1,022				•	
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Sequatchie County. 3,570 283 8,863 85 3,287 8,778 2.67 Sevier County. 24,166 4,646 51,043 649 19,520 50,394 2.58 Shelby County. 327,796 24,225 826,330 23,245 303,571 803,085 2.65 Smith County. 6,049 691 14,143 145 5,358 13,998 2.61 Stewart County. 4,384 706 9,479 184 3,678 9,295 2.53 Sullivan County. 60,623 3,894 143,596 2,147 56,729 141,449 2.49 Sumner County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 13,802	Scott County	7,122	588	18,358	•	•	•	2.78
Sevier County. 24,166 4,646 51,043 649 19,520 50,394 2.58 Shelby County. 327,796 24,225 826,330 23,245 303,571 803,085 2.65 Smith County. 6,049 691 14,143 145 5,358 13,998 2.61 Stewart County. 6,049 691 14,143 145 5,358 13,998 2.61 Stewart County. 60,623 3,894 706 9,479 184 3,678 9,295 2.53 Sullivan County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 7,076 455 16,549 231 6,621 16,318 2.46 Unicol County.	Sequatchie County	3,570	283	8.863			•	2.67
Shelby County. 327,796 24,225 826,330 23,245 303,571 803,085 2.65 Smith County. 6,049 691 14,143 145 5,358 13,998 2.61 Stewart County. 4,384 706 9,479 184 3,678 9,295 2.53 Sullivan County. 60,623 3,894 143,596 2,147 56,729 141,449 2.49 Sumner County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 7,076 455 16,549 231 6,621 16,318 2.46 Unicol County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 2,001 202 4,846 5 1,799 4,841 2.69 Warren County. 13,802 1,121 32,992 395 12,681 32,597 2.57 Washington County. 38,378 2,555 92,315 <td< td=""><td>Sevier County</td><td>24,166</td><td>4,646</td><td>• - •</td><td></td><td></td><td></td><td></td></td<>	Sevier County	24,166	4,646	• - •				
Smith County. 6,049 691 14,143 145 5,358 13,998 2.61 Stewart County. 4,384 706 9,479 184 3,678 9,295 2.53 Sullivan County. 60,623 3,894 143,596 2,147 56,729 141,449 2.49 Sumner County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 2,001 202 4,846 5 1,799 4,841 2.69 Warren County. 13,802 1,121 32,992 395 12,681 32,597 2.57 Wayne County. 38,378 2,555 92,315 4,424 35,823 87,891 2.45 Wayne County. 5,741 567 <td>Shelby County</td> <td>327,796</td> <td>24,225</td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td>	Shelby County	327,796	24,225			•	•	
Stewart County. 4,384 706 9,479 184 3,678 9,295 2.53 Sullivan County. 60,623 3,894 143,596 2,147 56,729 141,449 2.49 Sumner County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 7,076 455 16,549 231 6,621 16,318 2.46 Union County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 2,001 202 4,846 5 1,799 4,841 2.69 Warren County. 13,802 1,121 32,992 395 12,681 32,597 2.57 Washington County. 5,741 567 13,935 226 5,174 13,709 2.65 Weakley County. 12,857 865<	Smith County	6,049		•	•	•		
Sullivan County. 60,623 3,894 143,596 2,147 56,729 141,449 2.49 Sumner County. 39,807 2,957 103,281 1,216 35,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicoi County. 7,076 455 16,549 231 6,621 15,318 2.46 Union County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 2,001 202 4,846 5 1,799 4,841 2.69 Warren County. 13,802 1,121 32,992 395 12,681 32,597 2.57 Washington County. 38,378 2,555 92,315 4,424 35,823 87,891 2.45 Wayne County. 5,741 567 13,935 226 5,74 13,709 2.45 Weakley County. 12,857 <td< td=""><td>Stewart County</td><td></td><td>706</td><td>•</td><td></td><td></td><td></td><td></td></td<>	Stewart County		706	•				
Sumner County. 39,807 2,957 103,281 1,216 36,850 102,065 2.77 Tipton County. 14,071 1,038 37,568 267 13,033 37,301 2.86 Trousdale County. 2,537 276 5,920 125 2,261 5,795 2.56 Unicol County. 7,076 455 16,549 231 6,621 16,318 2.46 Union County. 5,696 764 13,694 121 4,932 13,573 2.75 Van Buren County. 2,001 202 4,846 5 1,799 4,841 2.69 Warren County. 13,802 1,121 32,992 395 12,681 32,597 2.57 Washington County. 38,378 2,555 92,315 4,424 35,823 87,891 2.45 Wayne County. 5,741 567 13,935 226 5,174 13,709 2.65 Weakley County. 12,857 865 31,972 2,403 11,992 29,569 2.47 Williamson County. 8,369 6	Sullivan County	60,623	3,894	• "			•	
Tipton County	Summer County	39,807	2,957	•	•		•	
Trousdale County	Tipton County	14,071	1,038	•	- •	•	•	•
Unicol County	Trousdale County	2,537	276	•				2.56
Union County	Unicoi County	7,076	455	16,549	231	•	•	2.45
Van Buren County	Union County	5,696	764			·	•	
Warren County		2,001	202	•		• •	-	
Washington County		13,802	1,121	• • •		•		
Wayne County 5,741 567 13,935 226 5,174 13,709 2.65 Weakley County 12,857 865 31,972 2,403 11,992 29,569 2.47 White County 8,369 647 20,090 210 7,722 19,880 2.57 Williamson County 29,875 1,947 81,021 713 27,928 80,308 2.88	Washington County	38,378	•	•			•	
Weakley County	Wayne County	5,741	567		•	•	•	
White County	Weakley County			•			• -	• • • •
Williamson County 29,875 1,947 81,021 713 27,928 80,308 2.88			647			- •		
Million County		•		•			•	
		26,198	2,128	•		· · ·	•	

Source: U. S. Bureau of the Census

Printout prepared March 18, 1991 by the Tennessee State Planning Office



HAZARDOUS CHEMICALS DATA BOOK

Second Edition

Edited by

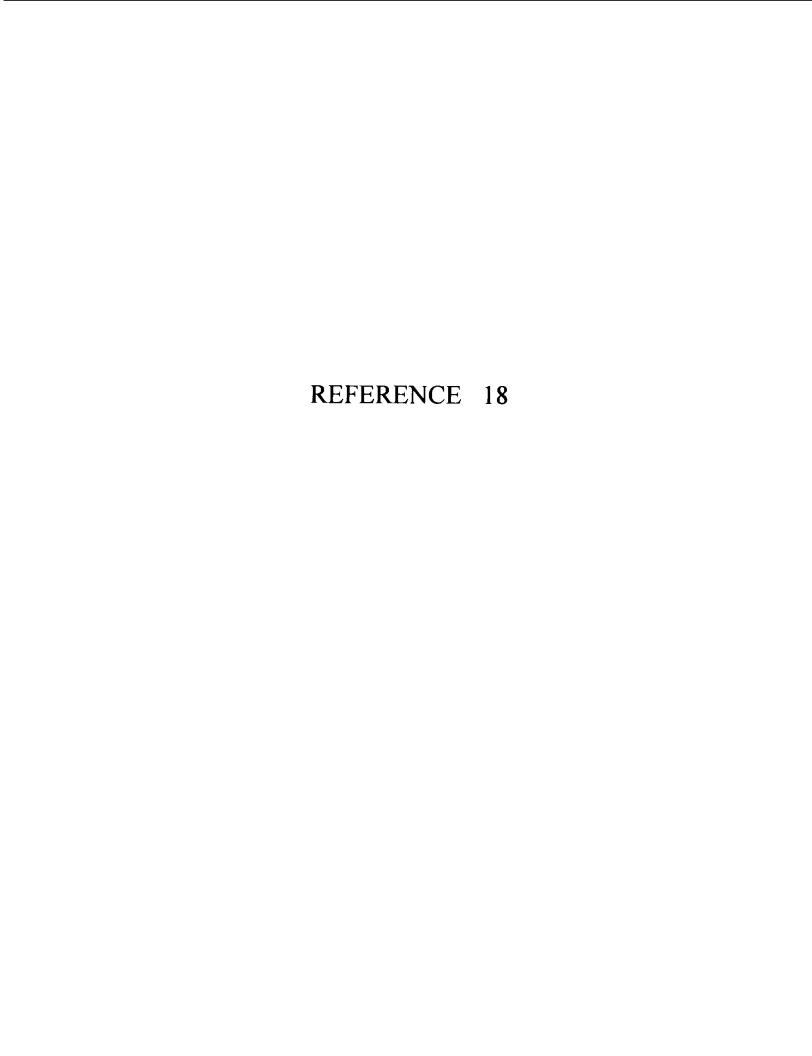
G. Weiss

NOYES DATA CORPORATION

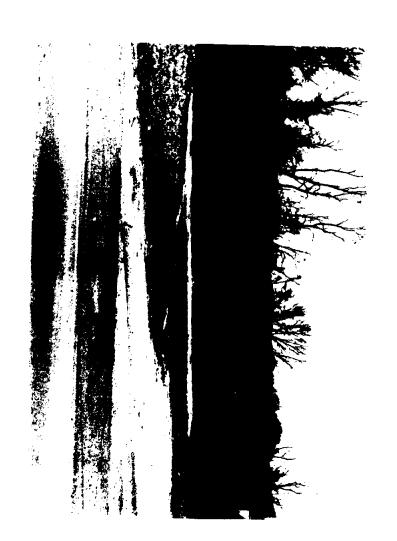
Park Ridge, New Jersey, U.S.A.

_		
Common Synon Liquid asphaft Asphaftum; fluxing oil Road oil; residual oil Patroleum tallings Oust-laying oil Asphaftum oil	heated)	sily Bark brown to black. Ter odor in water Rubbony solid is produced when cooled.
Call fire de Avoid conta Isolate and	wge if passible partneri act with floud remove discharged material health and poliution control ag	encins
Fire	Combustifie Exingush with water, they Cool exposed confirmers w	fhemicAl foarn of carbon (Розкія white water
Exposure	CALL FOR MEDICAL AND LIQUID Will burn shin and eyes Harmful if swallowed Florin factor of rich with p IF IN EYES, hold evience of IF SWALLOWFD and wickin OF MAN DO NOT MOUCE YOMITIN	pen and flush with plonly of water is CONSCIOUS, have victim drink water
Water Pollution	Effect of low concentrations FOULING TO SHORELINE, May be dangerous if it enter Notify local health and polit Notify operators of nearby	s water intakes
(See Response Mechanical (NSE TO DISCHARGE Methods Handbook) containment d physical treatment	LABEL Category: None Cass: Not pertinent
3.1 CG Compatibili Hydrocarbon 3.2 Formula: Not pe 3.3 IMO/UN Dealgn 3.4 DOT ID No.: 19	ortinent sation: 3 2/1999, 3 3/1999	4. OBSERVABLE CHARACTERISTICS 4.1 Physical State (as shipped): Liquid 4.2 Color: Brown to black 4.3 Odor: 1 arry
5.2 Symptome Folimitation of a degree of the ingestion pro S.3 Treatment of I inGESTION of activated soap and wa S.4 Three-hold Lim S.5 Bhort Term ini S.6 Toxicity by Ing. S.7 Late Toxicity; S.8 Vapor ((Las) Ir present in h. 6.8 Liquid of Solic	active Equipment: Protective of llowing Exposurer: Inhalation of asail and upper resperatory tractions are removal presuments with control of gastrometation of gastrometation of gastrometation of gastrometation of NOT induce vomiting, do incharcosi EYES wash with pier ter it visit and the protection of the protection	SPIRATION: treatment usually unnecessary. ROT lavage, administer 2:4 oz of olive pil and 1:2 oz oliv olive pil and 1:2 oz olive pil and 1:2 oz olive pil and 1:2 oz

6. FIRE HAZARDS 6.1 Flash Point: 300-550°F C C 6.2 Flammable Limits in Air: Not pertinent 6.3 Five Estinguishing Agents; Water, foam, dry chemical or carbon dioxida	III. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook) A-T-U
dry Chemical or carbon dovide 6.4 Fire Extinguishing Agents Not to be Used: Water or loam may cause trothing 6.5 Special Hazards of Combustion Products: Not pertinent 8.6 Sehavior in Fire: Not pertinent 9.7 Ignition Temperature: 400-700°F 8.8 Electrical Hazard: Not pertinent 9.10 Adisbalic Fieme Temperature: Data not available 8.11 Stoichlometric Air to Fuel Ratto: Data not available 8.12 Flame Temperature: Data not available 7. CHEMICAL REACTIVITY 7.1 Reactivity With Water: No reaction 7.3 Stability Ourling Transport: Stable Caustics: Not pertinent 7.5 Polymertzallon: Not pertinent 7.6 Inhibitor of Polymertzallon: Not pertinent 7.7 Moler Ratto Reactant to Product: Ceta not available 7.8 Reactivity Group: 33	II. HAZARD CLASSIFICATIONS 11.1 Code of Federal Regulations: Not listed 11.2 NAS Hazard Rating for Bulk Water Transportation: Category Rating Fixe. 1 Health Vapor Irritani / Liquid or Solid Irritani / Liquid or Solid Irritani / Possons I Water Polution Human Toxicity / Aquatic Toxicity / Aquatic Toxicity / Assistance I Hisconity Other Chemicals / Water / Self Reaction / 11.3 NFPA Hazard Classification: Category Classification Health Hazard (Blue) / Fitammobility (Paid) / Reactivity (Yellow) / Other Chemicals / Health Hazard (Blue) / Fitammobility (Paid) / Reactivity (Yellow) / Other Chemicals / Fitammobility (Paid) / Reactivity (Yellow) / Other Chemicals / Fitammobility (Paid) / Other Chemicals / Othe
8. WATER POLLUTION 8.1 Aquatic Toxicity: Data not available 8.2 Waterfowl Toxicity: Data not available 8.3 Blotogical Onygen Demand (800): Data not available 8.4 Food Chain Concentration Potential: Oata not available 9. SHIPPING INFORMATION 9.1 Grades of Purity: Data not available 9.2 Storage Temperature: Elevated 9.3 Inert Atmosphere: No requirement 9.4 Venting: Open (flame arrester)	12. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Physical State at 15°C and 1 atm: Liquid 12.2 Molecular Weight: Not pertinent 12.3 Boilling Point at 1 atm: Not pertinent 12.4 Freezing Point: 20 to 10°F = 7 to 40°C - 286 to 318°K 12.5 Critical Treasure: Not pertinent 12.6 Critical Treasure: Not pertinent 12.7 Specific Gravity: (eq.) 1.11 at 50°C (liquid) 12.8 Uquid Surface Tension: Data not available 12.9 Uquid Water Interfacial Tension: Data not available 12.10 Vapor (Casa) Specific Gravity: Not pertinent 12.11 Ratho of Specific Heats of Vapor (Gast Not pertinent) 12.12 Latent Heat of Vaporization: Not pertinent 12.13 Heat of Combuetton: Data not available 12.14 Heat of Solution: Not pertinent 12.15 Heat of Solution: Not pertinent 12.16 Heat of Polymertzation: Not pertinent 12.17 Heat of Solution: Data not available 12.26 Umiting Valve: Data not available 12.27 Reid Vapor Pressure: Oata not available 12.27 Reid Vapor Pressure: Oata not available
N(OTES







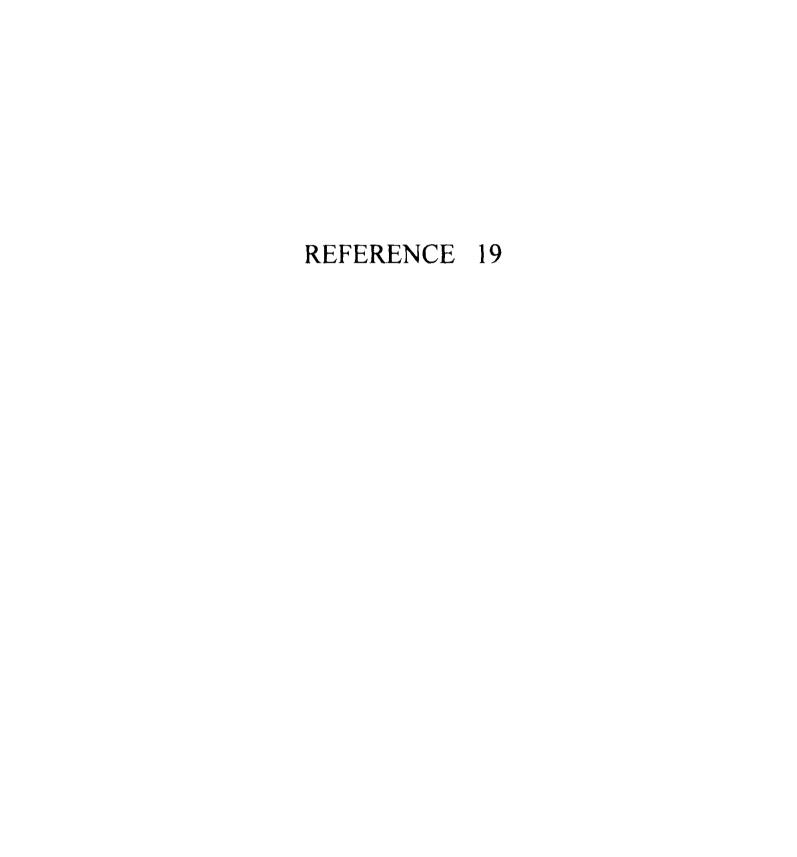
Date/Time of Photo: March 23 1994
Photo Taken by: Tim Stevart
Location/Name: Cumberland Lumber Co.
File # 71-508
Persons Present: Tim Stewart
Remarks: Photo taken facing east.
Shows drums on concrete pad next
to the northern side of the building
on the Cumberland Lumber
Company lot. Red Spring is
back behind telephone pole.
, , , , , , , , , , , , , , , , , , ,
Signature: John Tyin 5/1/95

	Date/Time of Photo: March 23, 1994 Photo Taken by: Tim Stewart
	Location/Name: Cumberland Lumber Co. File + 71 - 508
	Persons Present: Tim Stewart
	Remarks: Photo taken taking northeast.
-	Orange color of Red Spring Shown in photo.
	Shown in photo.
_	
	Signature: John Kyn 5/1/95
, makanana	<i>\(\)</i>

-



Date/Time of Photo: March 23 1994
Photo Taken by: Tim Stewart
Location/Name: Cumberland Lumber (o.)
F.10 # 71-50X
Persons Present: Tim Stewart
Remarks: Photo taken facing out.
Drums on concrete pad next
to the northern side of the
building on the Cumberland
Lumber Company 10t.
- company
Signature: John Kyn 5/1/95



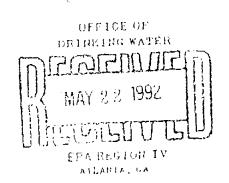
DRINKING WATER REGULATIONS AND HEALTH ADVISORIES

by

Office of Water U.S. Environmental Protection Agency Washington, D.C. 202-260-7571

SAFE DRINKING WATER HOTLINE 1-800-426-4791 Monday thru Friday, 8:30 AM to 5:00 PM EST

April 1992



LEGEND

A. viations column descriptions are:

- MCLG Maximum Contaminant Level Goal. A non-enforceable concentration of a drinking water contaminant that is protective of adverse human health effects and allows an adequate margin of safety.
- MCL Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system.
- RfD Reference Dose. An estimate of a daily exposure to the human population that is likely to be without appreciable risk of deleterious effects over a lifetime.
- <u>DWEL</u> Drinking Water Equivalent Level. A lifetime exposure concentration protective of adverse, non-cancer health effects, that assumes all of the exposure to a contaminant is from a drinking water source.
- (*) The codes for the <u>Status Reg</u> and <u>Status HA</u> columns are as follows:
 - F final
 - Q draft
 - L listed for regulation
 - P proposed (Phase II and V proposals)
 - tentative

Other codes found in the table include the following:

- NA not applicable
- PS performance standard 0.5 NTU 1.0 NTU
- IT treatment technique
- No more than 5% of the samples per month may be positive. For systems collecting fewer than 40 samples/month, no more than 1 sample per month may be positive.
- *** guidance
 - Large discrepancies between Lifetime and Longer-term HA values may occur
 because of the Agency's conservative policies, especially with regard to
 carcinogenicity, relative source contribution, and less than lifetime exposures in
 chronic texicity testing. These factors can result in a cumulative UF (uncertainty
 factor) of 10 to 1000 when calculating a Lifetime HA.

Chemical abbreviations include the following:

- PAH polycyclic aromated hydrocarbon
 - ethylene dibromide
- PAE phthalate acid ester
- PCBs polychlorinated biphenyls
- THM + tribalomethane
- DBCP dibromechlorepropane

April 1992	C,	andards					Hazith 5	Advisories				Page 1	
	1	anuarus	·	} i	10-	kg Child	11831117	104/201/02	70-ke	g Adult		······································	1
Chamicals	Status Reg.		G MCL (mg/l)	Status HA*		y Ten-day mg/l	Longer- r term mg/l	Longor- term mg/i n		DWEL	Lifetime mg/l	mg/l at 10 ⁴ Cancer Risk	Grout
<u>ORGANICS</u>	[]												
Aconaphthene	; -			ļ - [-	•	-	-	0.06	•	•		
Acifluorfen	-	•	-	1 = 1	2	2	0.1	0.4	0.013	0.4	•	0.1	B2
Acrylamide	İF	zero	TT	F	1.5	0.3	0.02	0.07	0.0002	0.00	7 -	0.001	82
Acrylonitrile	L			ו מו	0.02	0.02	0.001	0.004	0.0001	0.00	4 -	0.007	E 1
Adioates (diethylhexyl)	i P	0.5	0.5	<u> </u>				<u> </u>	0.7	20	0,5		C
Alachior	F	2010	0.002	; F i	0.1	0.1	-		0.01	0,4	•	0.04	82
Aldicarb	i F	0.001	0.003	1 = 1		•	•		0.0002	3.00	4 0,00	1 -	0
Aldicarb sulfone	į F	0.001	0.002	j F		•	•	j -	0.0002	0.00	4 0.00	ነ -	0
Aldicarb sulfoxide	F		0.004	F			•		0.0002	0.00	4 0.00	1 -	D
Aldrin				ו סו	0.000	3 0.0003	0.0003	0.0003	3.0.0000	3 0.00	1 -	0.0002	B2
Ametryn	1 -		•	I F	9	9	0.9	3	0.009	0.3	0.06	•	10
Ammonium Sulfamate	-	٠.		i F	20	20	20	80	0.28	8	2	••	0
Anthracene (PAH)	i -	•		ì .	•		-	-	0.3	•	-	-	1 0
Atrazine	F	0.003	0.003	i F i	0.1	0.1	0.05	0.2	0.005	0.2	0.003	3 .	C
Bayden	į -		•	i e i	0.04	0.04_	0.04	0.1	0.004	0.1	0.00	3 ·	<u> </u>
Sentazon	L			[F]	0.3	0.3	0.3	0.9	0.0025	0.09	0.02	•	D
Benzialanthracene (PAH)	j P	zero	0.0001	(-)	•	•	-		-	•	-	•	! B2
Benzene	jç	zero	0.005	F	0.2	0.2	-	-	•	•	-	0.1	A
Benzola)pyrene (PAH)	ρ	zero	0.0002	j - j	•		•	-	-	-	•	•	B21
Benzoib)fluoranthene (PAH)	l P	zero	0.0002	<u> </u>				-					B2
Senzo(g,h,i)perylene (PAH)	-		•	-		•	•	-	-	-	•	-	0
Senzo(k)fluoranthene (PAH)	P	zero .	0.0002	-	-	•	~	•	٠	-	-	•	82
bis-2-Chloroisopropyl ether	į .			i F	4	4	4	13	0.04	1	0.3	•	i D
Sromacii	į L	•	•	F	5	5	3	9	0.13	5	0.09	•	C
Bromobenzene	i	_	•	D	·		-	1					1

^{*} Under review.

NOTE: Anthracene and Benzolg,h, il perylene - not proposed in Phase V.

CHANGES FROM THE LAST VERSION ARE NOTED IN ITALIC AND BOLD FACE PRINT.

	Sta	<u>indards</u>	· - · · · · · · · · · · · · · · · · · ·		Health Advisories Page									
				1	10-k	n Child			70-ke	q Adult			. \	
Chemicals	 Status Reg.*	MCLG (mg/I)		Status HA*	One-day	Ten⊰lsy nig∄	term rng/I	Longer term mg/l			Ufetime mg/l	mg/i at 101 Cancer Risk	Cand Group	
Bromochloroacetonitrile	L	-	•	j D i	•	•	-	-	•	_		-	1 •	
Bromochioromethane	-	-	•	F	50	1	1	1 5	0.013	0.5	0.09	•	-	
Promodichloromethane (THM)	L	- (). 1	101	7	7	4	13	0.02	0.7	•	0.14.	82	
Stomoform (THM)	L	. (). 1	D	5	2	2	6	0.02	0.7	-	0.4	B2	
Bromomethane	1!			i F	0.1	0.1	0.1	0.5	0.001	0.05	0.01	•	<u> </u>	
Butyl benzyl phthalate (PAE)	P zei	ra (2.1	1	-	•	-	-	0.2	6	*	-	C	
Sutylate	-	-	-	F	2	2	٦	4	0.05	2	0.35		jo	
Butylbenzene n-	-	-	-	D	•	•	-	-	•	-	-	•	-	
Butylbenzene sec-	-	-	-	D	•	-	-		•	-	-	-	į -	
Butylbenzene tert-	1 -		-	D									<u> </u>	
Carbary1		•	•	F	7	1	1	1 1	0.1	4	0.7	-	D	
Carbofusan	Į F	0.04	0.04	F	0.05	0.05	0.05	0.2	0.005	0.2	0.04	-	E	
Carbon Tetrachloride) F	zero (0.005	IFI	4	0.2	0.07	0.3	0.0007	0.03	•	0.03	82	
Carboxin	-	•	-	i e i	1	1	1	4	0.1	4	0.7	٠.	D	
Chloral Hydrate	1 1	-	•	1 0 1	7	1.4	0.16	0.56	0.0016	0.05	6 Q.Q4!	5	<u>i -</u>	
Chloramben	•	-		F	3	3	0.2	0.5	0.015	0.5	0.1	-	1 0	
Chlordane	F	zero (0.002	F	0.06	0.06	÷	i -	0.0000	6 0.003	2 -	0.003	B2	
Chlorodibromomethane (THM)	į į	- ().1	$\downarrow D$	7	7	2	ક	0.02	0.7	0.06	-	1 · C	
Chloroethane	į		•	ip	-	_		i -			-	-	j -	
Chieroform (THM)		- (0.1	D	4	4	0.1	0.4	0.01	0.4	-	0.6	B2	
Chloramethane	i	-		! F	9	0.4	0.4	1 1	0.004	0.1	0.00	3 •	C	
Chlorephenot (2-)				D	0.05	0.05	0.05	0.2	0.005	0.2	0.04	•	i D	
p-Chlorophenyl metityi	j			i				ĺ					į	
sulfide/sulfone/sulfoxide	-		_	D				j .	-	•	-		D	
Chloropicrin	, i	•		-				-		-	-			
Chlorothalonil	1 -	-		i e i	0.2	0.2	0.2	0.5	0.015	0.5	-	0.15	82	
Chlorotoluene o-				F	2	2	2	7.	0.02	0.7	0.1	-	D	
Chlorotoluene p	; "	_	•	F	2	2	2	7	0.02	0.7	0.1		D	
Chlorpyrifes	1 .		-	D	0.03	0.03	0.03	0.1	0.003	0.1	0.02	•	Ď	
Chrysene (PAH)	P	zero (0.0002	- 1	•		-	-		•		•	82	
Cyanazine			-		0.1	0.1	0.02	0.07	0.002*	0.07	• 0.00	Ţ -	C	

Under review. NOTE: Chrysene was proposed in second option.

	Health Advisories												
	į				10-	ka Child			70-1	g Aduit			. 1
Chemicals .	Status Reg.*		G MCL (mg/l)	Status HA*	One-day	y Ten-da mg/l	Longer- y term mg/li	Longer term mg/l	RfD mg/kg/da		Lifetime mg/l	mg/l at 10 ⁻¹ Cancer Risk	Grou
Cyanogen Chloride	L		-	-	-	-	-			*			 •
Cymene p-	! -	-	•	1 D	-	•	-	-	-	•	•		j -
2,4-D	F	0.07	0.07	1 8 1	1	0.3	0.1	0.4	0.01	0.4	0.07		ם ו
DCPA (Dacthal)	ļ L	•	•	[F 1	80	80	5 -	20	0.5	20	4	•	10
Dalapon	P	0.2	0.2	F	3	3	0.3	0.9	0.025	0.9	0.2	<u></u>	<u> </u>
Dii 2-ethylhexylladipaile	i P	0.4	0.4	-	20	20	20	50	0.6	20	0.4	3	C
Diazinon	ļ -	•	-	F	0.02	0.02	0.005	0.02	0.0000	0.00	3 0.000	06 -	E
Dibenz(a,h)anthracene (PAH)	7	zero	0.0903	-	•	•	-	-	•	-	•	-	1 32
Dibromoacetonitrile	j L	-	-	[D]	2	2	2	8	0.02	0.8	0.02	~	10
Dibromochloropropane (DBCP)	E	zero	0.0002	F	0.2	0.05	•	<u> </u>				0.003	1 82
- Dibromomethane	L		-	- 1	-	•	•	ļ · -	-	-	•	-	D
Dibutyl phthalate (PAE)	-	•	•	1 -	•	•	•	<u> </u>	0.1	4	- '	-	D
Dicamba	ļ L	-	•	F	0.3	0.3	0.3	1	0.03	1	0.2	•	10
Dichloroacetaldehyde	į L	-	-	D	-	•	-		•	-	~	٠.	
Dichloroacetic acid	i_t	•	<u>.</u>	l D			•	<u>i </u>					1 -
Dichleroacetonitrile	l L	-	•	D	1	1	8.0	1 3	300.0	0.3	0.008	5 -	C
Dichlorobenzone o-	F	0.6	0.6	F	9	9	9	30	0.9	3	0.6	-	D
Dichlorobenzene m- *	F	0.6	0.6	F	9	9	9	30	0.9	3	0.6	-	D
Dichlorobenzene p-	F	0.075	0.075	F	10	10	10	40	0.1	4	0.07	5 -	C
Dichlorodifluoromethane	L	•	-	F	40	40	9	30	0.2	5	1	-	C
Dichloroethane (1,1-)	į L	-		1 D !	•		-						<u> </u>
Dichloroethane [1,2-]	j F	zero	0.005	F	0.7	0.7	0.7	2.6	•	•	•	0.04	82
Dichloroethylene (1,1-)	F	0.007	0.007	F	2	1	1	ļ 4	0.009	0.4	0.00	7 -	į c
Dichloroethylene (cis-1,2-)	F	0.07	0.07	F	4	3	3	11	0.01	0.4	0.07	•	1 0
Dichloroethylene (trans-1,2-)	i F '	0.1	0.1	F	20	2	2	6	0.02	0.6	0,1	•	D.
Dichloromethane	j P	zero	0.005	l F	10	2		-	0.06	2	· · · ·	0.5	B2
Dichlorophenol (2,4-)			•	D	0.03	0.03	0.03	ί α.:	0.003	0.1	0.02	-	D
Dichloropropane (1,1-)	, -	-		0	•	•	•		•	•	•	-	į · -
Dichloropropane (1,2-)	F	zero	0.005	I F	~	0.09	•		•	•	•	0.05	32
Dichloropropane (1,3-)	I_	•	•	D	•	•	•		•	•	•	•	-
Dichloropropane [2,2-]	i L	•	•	_ D			-		-				! -

^{*} The values for m-dichlorobenzene are based on data for o-dichlorobenzene

	Health Advisories												
	1			1 !	10-kg Child 70-kg Adult								
Chemicals	Status Reg.*		MCL (mg/il)	Status HA*	One-day mg/l	Ten-day mg/l	Longer- term mg/l	Longer- term mg/F r			Lifetime mg/l	mg/l at 10 ⁻⁴ Cancer Risk	Cenc Grou
Dichloropropene (1,1-)	l.	•	-	D	•	•	•	-	•	•	•		-
Dichloropropene (1,3-)	1.	•	•	F	0.03	0.03	0.03	0.1	0.0003	0.01	•	0.02	B2
Dieldrin	1 -	-	•	[E]	0.0005	0.0005	9.0005	0.002	0.00003	5 0.002	? -	0.0002	82
Diethyl phthalate (PAE)	-	-	•	[D]	-	•	- .	1	0.8	30	5	•	[D
Diethylene glycol	1							1					1
dinitrațe								-				•	<u></u>
Diethylhexyl phthalate (PAE)	P	zero (0.004	D	•	•	•		0.02	0.7	•	0.3	1B2*
Diisopropyl methylphosphonate	-	-	•	F	8	8	8	30	0.03	3	0.6		D
Dimethrin	-	-		F	10	10	10	40	0.3	10	2	•	jo
Dimethyl methylphosphonate	į -	•	•	1 D	•	-	-	-	0.2	-	•	•	C
Dimethyl_phthlate_(PAE)		•	•	1 - 1	_				-				D
1,3-Dinitrobenzene	1 -	•	•	F	0.04	0.04	0.04	0.14	0.0001	0.005	0.001		{ D
Dinitrotoluene (2,4-)	L	•	•	F	0.50	0.50	0.30	1.0	0.002	0.1	•	5.0	B2
Dinitrotoluene (2,6)	L		•	F	0.40	0.40	0.40	1.0	0.001	0.04	•	- 5.0	82
Dinoseb	P	0.007 9	0.007	F	0.3	0.3	0.01	0.04	0.001	0.04	0.007	7 -	D
Dioxane p-	<u> </u>			<u> </u>	4	0.4		-	-		•	0,7	82
Diphenamid		-		F	0.3	0.3	0.3	1	0.03	1	0.2	•	[D
Diquat	P	0.02	0.02	-	•	-	-	-	0.0022		0.02	•]. D
Disulfoton	-	•	•	! F }	0.01	0.01	0.003	0.003	0.0000	4 0.00.	0.000	3 -	[ξ
1,4-Dithiane		•	-	D	•	•	•	-	•	•	•	•) D
Oituron				J F 1	1	1	0.3	0.9	0.002	0.07	0.01		<u> </u>
Endothall	P	0.1	0.1] F	8.0	0.8	0.2	0.2	0.02	0.7	0.1	-	₹ ₽
Endrin	P	0.002	0.002	F	0.02	0.02	0.003	0.01	0.0003		0.002	2 -	i D
Epichtorohydrin	ļ F .	zero	TT	F	0.1	0.1	0.07	0.07	0.002	0.07	•	0.4	B2
Ethylbenzene	F	0.7	0.7	F	30	3	1	3	0.1	3	0.7	•	I D
Ethylene dibromide (EDB)	F	zero	0.00005	I F I	0.008	<u>0.003</u>			<u>-</u>			0.00004	
Ethylene glycol		•	-	[F]	20	6	6	20	2	40	7	•	D
ETÚ	L	•	•	F	0.3	0.3	0.1	0.4	0.0000			0.006**	82
Fenamiphos	į -	•	-	F	0.009	0.009	0.005	0.02	0.0002			2 -	0
Fluometuron		•	•	[F	2	2	2	5	0.013	0.4	0.09	•	D
Fluorene (PAH)	i -	-		<u> </u>			4	<u> </u>	0.04			•	<u>L</u> D

^{*} Under review.

^{**} Not verified yet.

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	Sta	andards					Health	Advisories				1049	- -
					10-	kg Child			70-k	n Adult			1
Chemicals	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA*	One-da mg/l	y Ten-day mg/l	Longer- / term mg/l	Longer- term mg/l r			Lifetime mg/l	mg/l at 10⁴ Cancor Risk	Cand Grous
Fluorotrichloromethane	1 1	•	•	٤	7	7	3	10	0.3	10	2	+	D
Fog Oil	-	-	•	D	•	•	-	-	-		•		
Fonofos	-	-		} F	0.02	0.02	0.02	0.07	0.002	0.07	0.01		D
Formaldehyde		-	-	IDI	10	5	S .	20	0.15	5	1	-	81
Gasoline, unleaded (benzene)	<u> </u>			D				<u>j - </u>		-	0.005	j	
Glyphosate	P	0.7	0.7	F	20	20	1	1	0.1	4	0.7	•	D
Heptachlor	k :	zero i	0.0004	i F	0.01	0.01	0.005	0.005	0.0005	0.02	•	0.0008	B2.
Heptachlor epoxide	F	zero	0.0002	i F	0.01	-	0.0001	0.000	1 1.35-05	0.000	04 -	0.0064	B2
Hexachlorobenzene	ÌР	zero i	0.001	F	0.05	0.05	0.05	0.2	0.0008	0.03	•	0.002	B2
Hexachlorobutadiene	Ĺ	-	•	L F	0.3	0.3	0.1	0.4	0.002	0,07	0,001		<u> c</u>
Hexachlorocyclopentadiene) P	0.05	0.05	-	•	•	•	•	0.007	0.2	•		D
Hexachloroethane	L	•	•	I F	5	5	0.1	0.5	0.001	0.04	0.001	<u> </u>	i c
Hexane (n-)	i -	-		٤	10	4	4	10					i o
Hexazinone	i -	-	•	I F	3	3	. 3	9	0.033	1	0.2	٠_	D
HMX			-	<u>l</u> F	5	5	5	20	0.05	2	0.4		j D
Hypachlorite	L	-	•	-	•		•	-		~ .	•	-] -
Hypochlorous acid	-	-		1 -	-		-	•	-	-	•	•	1
Indeno(1,2,3,-c,d)pyrene (PAH)	j p	zero	0.0004	D	•	-	-	-		-	•	•	B2
Isophorone	L		-	j o i	15	15	15	15	0.2	7	0.1	-	C
Isopropyl methylphosphonate	_ i .	-		Di	30	30	30	100	0.1	4.0	0.7	•	<u>l</u> D
Isopropylbenzene	-	-	•	D		**	-	-	•	•	•	•	
Lindane	F.	2E-4	0.0002	F	1	1	0.03	0.1	0.0003	0.01	0.000)2 •	i c
Malathion				o i	0.2	0.2	0.2	0.8	0.02	8.0	0.2	•	<u> </u>
Maleic hydrazide	j .	-		F	10	10	5	20	0.5	20	4	•	0
MCPA		-		F	0.1	0.1	0.1	0.4	0.0015	0.05	0.01	•	.i , €
Methomyl	i L			F	0.3	0.3	0.3	0.3	0.025	0.9	0.2	•	D
Methoxychlor	F	0.04	0.04	İF	0.05	0.05	0.05	0.2	0.005	0.2	0.04	-	10
Methyl ethyl ketone	ÌL	•	-	F	80	8	3	9	0.0000	5 0.9	0.2	•	0
Methyl parathion	-			j e	0.3	0.3	0.03	0.1	0.0002			2 •	D
Methyl tert butyl ether	1 1	_		ioi	3	3	0.5	j 2	0.005	0.2	0.04	•	io

	Sta	andards				···	Health	Advisorie:					
				1	10-	kg Child		1	70-k	g Adult			
Chemicals	Status Reg.*	MCLG (mg/l)	i MCL (mg/l)	Status HA*	One-day	y Ten-day Ing/l	Longer- mg/l	Longer term mg/l			Ufetime mg/l	mg/l at 10 ⁻⁴ Cancer Risk	Can Gro
Metolachlor	L	•		[F	2	2	2	1 5	0.15	5	0.1	<u> </u>	1 C
Metribuzio	į L	-	•	F	5	5	0.3	0.9	0.025	0.9	0.2	-	D
Monophloroacetic acid	IL	-		101	•	•	•	-	-			_	
Monochlorobenzene	F	0.1	0.1	I F	2	2	2 -	7	0.02	0.7	0.1	•	. D
Naphthalene				ا ج	0.5	0.5	0.4	1 1	0.004	0,1	0,02		<u>i</u> D
Mitrodellulose (non-toxic)	-	-	•	F		•	•	-	•	-	•	•	ì ·
Nitroguanidine			-	F	10	10	10	40	0.1	4	0.7	-	0
Nitrophenols p-		•		I D !	8.0	3.0	0.8	3	0.008	0.3	0.06	-	1 0
Oxamyl (Vydate)	P	0.2	0.2	F	0.2	0.2	0.2	0.9	0.025	0.9	0.2	-	E
Ozone by-products	L	<u>.</u>						1 -		•			<u>i</u> .
Paraquat	-	•		F	0.1	0.1	0.05	0.2	0.0045	0.2	0.03	-	E
Pentachloroethane	-	-		D	•	•	-	-	-	•	•	- .	
Pentachlorophenol	j F	zero	0.001	F	1	0.3	0.3	1	0.03	1	•	0.03	B2
Phenanthrene (PAH)	-	-	•	1 . 1	-	-	•	-	•	-	-		į -
Pheno!	-			ם	tõ	6	6	20	0.6	20	4		<u>i</u> D
Picloram	l P	0.5	0.5	l F	20	20	0.7	2	0.07	2 -	0.5	•	D
Polychlorinated byphenyls (FC8s)	j F	zero	0.0005	P	-	•	-	į .	-	•		0.0005	B2
Premetori	L			F	0.2	0.2	0.2	0.5	0.015	0.5	0.1	-	D
Pronamide	•	-		F	0.8	0.8	0.8	3	0.075	3	0.05	-	ic
Propachlor	i			F	0.5	0.5	0.1	0.5	0.013	0.5	0.09		j D
Propazine	•	•	-	F	1	1	0.5	2	0.02	0.7	0.01	-	1 0
Prooham				F	5	5	5	20	0.02	0.6	0.1	•	; C
Propylbenzene n-	-			D			-	-	•	•	-	-	.
Fyrene (PAH)	-	, * -	-	-	-	•	•	-	0.03		-	÷	D
ROX		-		F	0.1	0.1	0.1	0.4	0.003	0.1	0.00	2 0.03	<u> </u>
Simazine	P	0.004	0.004	F	0.07	0.07	0.07	0.07	0.005	0.2	0.00	4 -	1 0
Styrens	F	0.1	0.1	F	20	2	2	7	0.2	7	0.1	-	1 0
2,4,5-T	L	-	-	F	8.0	8.0	8.0	1 1	0.01	0.35		•	0
2,3,7,8-TCDD (Dioxin)	P 26	ero 5	E-08	F	15-06	1E-07	15-08	4E-08	1E-06	4E-08		2E-08	B2
Tebuthiuron				F	3	3	0.7	1 2	0.07	2	0.5		<u> </u>

^{*} Under review. NOTE: Phenanthrene ~ not proposed.

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	Sta	<u>andards</u>	<u> </u>				Health	<u>Advisorias</u>					
	į				10-1	kg Child		<u> </u>	70-ke	Adult			1
Chemicals	Status Reg.*		G MCL (mg/l)	Status HA"	One-day mg/l	y Ten-day mg∂i	Longer- r term mg/l	Longer- term mg/l r			Lifetime mg/i	mg/I at 10 ⁻⁴ Cancer Risk	Can Grot
Terbacil		-		F	0.3	0.3	0.3	0.9	0.013	0.4	0.09	•	ÌΕ
Terbufos	! -	•		F	0.005	0.005	0.001	0.005	0.00013	0.005	0.000	9	1 5
Tetrachloroethane (1,1,1,2-)	Ĺ	-	•	{ F	2	2	0.9	13.	0.03	1	0.07	0.1	1 0
Tetrachloroethane (1,1,2,2-)	L	•	-	D	•	•	•	1 -	-	-	-		j .
Tetrachloreethylege	<u> </u>	<u> rero</u>	0.005	F	2	2	1	5	0.01	0.5		0.07	·
Tetrenitromethane	1 -	•	•	D	•	•	-	•	•	•	•	. ,	1
Foluene	F	1	1	F	20	2	2	1 7	0.2	7	1	-	
Toxaphene	į F	zero -	0.003] F	0.5	0.04	-	j -	0.1	0.003	5	0.003	, E2
2,4,5-TP	l F	0.05	0.05	(F (0.2	0.2	0.07	0.3	0.0075	0.3	0.05	•	į
1,1,2-Trichloro-1,2,2-	ì			1									į
trifluoroethane	1 -			j j	•			<u> </u>		<u>.</u>	<u> </u>		. İ
Trichloroscetic acid	i L	-	-	i D (•	•	•	į ~	•	•	•	•	[
Trichloroactonitrile	L	-		i Di	0.05	0.05	-	į -	-	•	-	••	i
Trichlorobenzene (1,2,4-)	Р	0.07	0.07	1 = 1	0.1	0.1	0.1	0.5	0.01	0.4	0.07	-	1 8
Trichlorobenzene (1,3,5-)	i -	•	-	F	0.6	0.6	0.6	2	0.006	0.2	0.04	•	į
Trichloroethane (1,1,1-)	F	0.2	0.2	FI	100	40	40	100	_0.035_	1	0.2		_
Trichleroethane (1,1,2-)	l P	0.003	0.005	F	0.6	0.4	0.4	1 1	0.004	0.1	0.003	•	j. (
Trichloroethanol (2,2,2-)	ÌL	-	•	{ - j	-		-	į -	-	•		-	į
Trichloroethylene	F	zero	0.005	F	-	-	-	-	-	0.3	•	0.3	5
Trichlorophenol (2.4,5-)	L		-	0	-		-		-			0.3	B
Trichloropropane [1,1,1-]	<u> </u>	-	-	_ כו		•		<u>i </u>			•		·
Trichloropropane (1,2,3-)	i L			F	0.6	0.6	0.6	2	0.006	0.2	0.04	•	1
Trifluralin	L		-	F	30.0	80.0	80.0	0.3	0.0075	0.3	0.005	-	1 (
Trimethylbenzone (1,2,4-)	i -		•	i o i	-		-	<u> </u>	-	•	•	-	į
Frimethylbenzene (1,3,5-)		-	-	D	-		-	-	-		-	-	i
Trinitroglycerol	<u> </u>	·		F	0.005	0.005	0.005	0.005			0.005	-	
Trinitrotoluene	-	-	-	F	0.02	0.02	0.02	0.02	0.0005	0.02	0.002	0.1	1
Vinyt chloride	F	zero	0.002	j F	3	3	0.01	0.05	-	•	-	0.0015	1
White phosphorus		-	-	į F		-	•	-	0.0000	2 0.000	5 0.000	11 -	1 1
Kylenes) F	10	10	F	40	40	40	100	2	60	10		1_[

^{*} Under review.

66. US -55

April 1992	Ste	Standards				Health A	Health Advisories				Pane S	ŧ
	_			10-4	10-kg Child			70-kg	70-kg Adult			
	Status	MCLG MCL	Status	One-day	J One-day Ten-day	Longer- term	Longer-	RfD		lifetima e	mg/l	Cancer
Chemicals	Reg.*		HA*	mg/ł		тдЛ		184	MgA		Cancer Risk	500
<u> MORGAMOS</u>	.	-	1 qu								,	
Aiuminum		,	٥	1		•		,		1		,
Ammenia		,	<u>ـ</u>			,	•		,	30		O
Antimony	0 d	0.003 0.01/0.055	_ _	0.015	0.015	0.015	0.015	0.0004	0,015	0.003	•	0
Arsenic Ashestos (fibors) > 10pm lanoth)	۰ ب س	- 0.05 7 ME 7 ME	ت ت آ	• (1	1	•	•		0.002	વ •
Barium		2 2	L.	,				0.07	, ,	-	י אוניר כי	د اد
Beryllium	۵.	zero 0.001	۵	30	30	₹]	. Q;	0.005	0.2		0.0003	. c
Boron	بـ		۵		0.3	6.0	m	0.09	် က	9.0	,	<u> </u>
Cadmlum	u	0.005 0.005	(L	0.04	0.04	0.005	0.02	0.0005	0.02	0.005		
Chloramine	-'		_ _	+-	-	-	1	0.1	3. 3.3	2.6		
Chlorate			a		,	,	•					١.
Chlorine	_!		۵	•				•	•		. •	ı
Chlorine dioxide	<u>_</u>		<u></u> ۵		,	•	•		•		•	•
Chlorite	 		 	•		•	,			•	•	-
Chromium (total)	<u>u</u>	0.1 0.1	α.		•	0.2	0.6	0.005	0.2	0.1	•	۵
Cooper	a. 	1.闰丁••						,		•	•	6
Cyanide	a	0.2 0.2	u.	0.2	0.2	0.2	9.0	0.022	0.8	0.5	-	a
Fluoride*	u. 	u u	•	ı	•		,	0.12		,		
Lead (at tab)	и. 	zero TT	•	,	•	•			. •		•	97 64
Manganese	,	•				,	•	0.14	•	,	•	• !
Mercury (inorganic)	fr	0.002 0.002		,		•	0.005	0.0003	0.01	0.002		۵
Molybdenum	ر ب		<u>۔</u> دء	•	•	•	•	0.005	0.175	0.035	•	ට
Mickel			منا منا	,	~ -	0.5	1.7	0.02	9.0	0.1		చ
Nitrate (as M)	ш. Т	10 10	<u>ц</u>		10.		١,	5.	•	٠,	•	•
Mitrite (35 N)	£L.	**-	L.			1	1	0.16				•]
									İ			1

• Under review.

^{**} Copper - action level 1.3 mg/L Lead - action level 0.015 mg/L

		<u>itandar</u>	ds					Health	<u>Advisories</u>	S				
		_		1	Ì	10-	ka Child		1	70-k	q Adult	<u> </u>		
Chemicals			LG MCL /i) (mg/l)	Stat		One-da mg/l	y Ten-da mg/l	Longer- y term mg/l	Longer term mg/l	RfD		Lifetime mg/l	mg/i at 10 ^{r4} Cancer Risk	Group
Mitrate + Minite (both as N)	F	10	10	F	;	-	•	-	-	•	-	•	-	•
Selenium	F	0.05	0.05	1 -	i	-	-	-	-	0.005	•	•	-	
Silver	ţ -	•	-	D	1	0.2	0.2	0.2	0.2	0.005	0.2	0.1	-	j D
Sadium		-	*	D	j	•	-	-	-	•	20***	• .	-	
Strontium		····		<u>D</u>		25	25	25	90	2.5	90	17		<u> </u>
Sulfate	į P	400/50	0 400/500	-	ŧ	-	•	-		-		•	•	
Thallium	P	0.000	0.002/ 0.001	D	1	0.007	0.007	0.007	0.02	0.0000	7 0.00	2 0.000	04 -	
Vanadium	1 6	•	-	[D	ţ	80.0	0.08	0.03	0.11	0.003	0.11	0.02	•	D
Zino	L	-	-	D	1	-	•	-	-	0.3	10.5	2.1	• ,	į D
Zinc chloride (measured as Zinc)	L			1 0			.	<u> </u>	1 -	0.3	10.5	2.1		<u> </u>

RADIONUCLIDES

Beta particle and photon activity (formerly										
man-made radionuclides)	į F	zero 4 mrem -	}	•	•	- i	•	•	-	- 4 mrem/y A
Gross alpha particle activity	F	zero 15 pCi/L -	1		•	• 1	-	•	-	i v
Radium 226/228	P	zero 20 pCirL -	ĺ		•		-		•	- 22/26 pCi// A
Radon	Р	zero 300 pCIA -	1	-		-	•		•	- 150 pCi/l A
Uranium	<u>i</u> P	zero 20 ug/! ·				· i	<u> </u>			- 170 pCi/l A

^{*} Under review.

^{• • •} Guidance.

April 1992		Page 10
Chemicals	Status	SMCLs (mg/l)
Aluminum	F	0.05 to 0.2
Chloride	F	250
Color	F	15 color units
Copper	F	1
Corrosivity	F	non-corrosive
Fluoride*	F	2
Foaming Agents	F	0.5
Hexachlorocyclopentadiene	l P	0.008
Iron	F	0.3
Manganese	F	0.05
Odor	F	3 threshold odor numbers
pH	F	6.5 - 8.5
Silver	F	0.10
Sulfate	F	250
Total Dissolved Solids (TDS)	F	500
Zinc	F	5

Status Codes: P - proposed, F - final

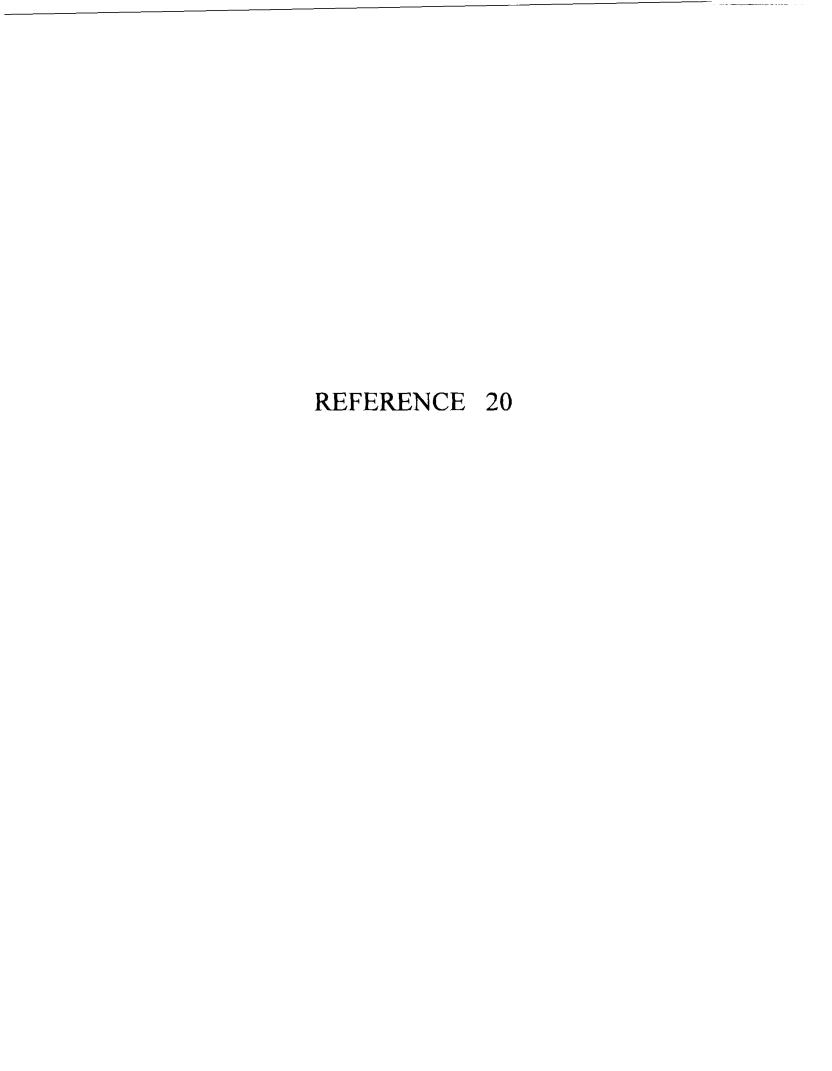
^{*} Under review.

MICROBIOL' Y

	Status_	MCLG	MCL	
Cryptosporidium	_		•	
Giardia lamblia	ŗ	zero	TT	
Legionella	F^a	zero	77	
Standard Plate Count	E.	NA	Т	- .
Total Coliforms (after 12/31/90	D) F	zero	4 4	
Turbidity (after 12/31/90)	F	NA	PS	
Viruses	Ŀe	zero	. 11	

Key: PS, TT, F, defined as previously stated.

³: Final for systems using surface water; also being considered for regulation under groundwater disinfection rule.



TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DAIE: 4/10/95

Time: 1000

TO: DSF Files .

FROM: John Kizer

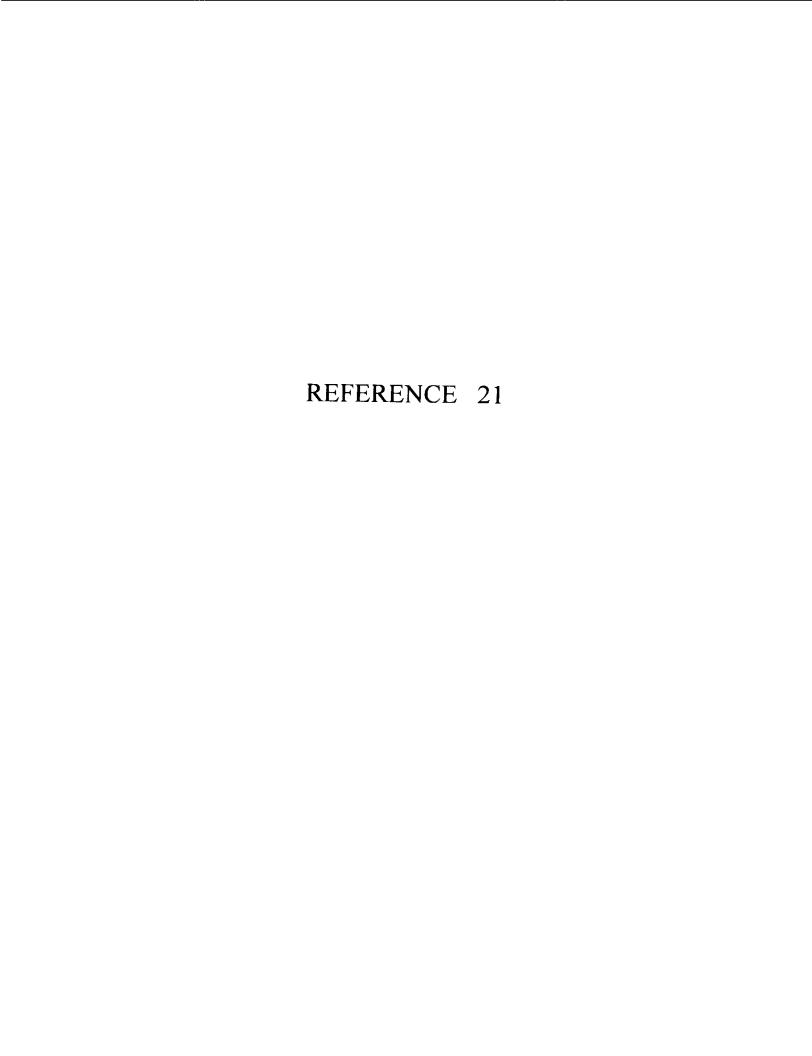
SUBJECT: Cumberland Handwoods - USTS

File: 80	9-506 (ached)	BKA
FROM	ТО	DATE
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Ì	-	
		
}	·	

Called Rocky Hannah to discuss weather there had been any trouble with USTs near Red Spring. He stated that there has not been and problems with Cumberland Lumber's USTs' or any other storage tanks in the area that he knew about. He said the County Environmentalist told him Red Spring did not exist until after the new sewer lines had been put in. Additionally, a spring near the sewer in Rivertront Park appeared the same as Red Spring; therefore, he suspects the contamination is

FROM DATE

John Knjer 4/10/95



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

DATE: 04/10/95

TIME: 1000

TO: DSF Files

SUBJECT: Underground storage tanks near Cumberland Lumber Company site

FROM: John Kizer

RE: Cumberland Lumber Co. (89-506)

Called Rocky Hannah to discuss if there had been any trouble with underground storage tanks near Red Spring. He stated that there has not been any problems with Cumberland Lumber's underground storage tanks or any other storage tanks in the area that he knew about. They intend to perform a Compliance Inspection at Cumberland Lumber later this year. He said the County Environmentalist told him Red Spring did not exist until after the new sewer lines had been put in. Additionally, a spring near the sewer in Riverfront Park looked the same as Red Spring; therefore, he suspects the contamination is coming from the sanitary sewer.

John Fryn 4/12/95

REFERENCE 22









THIS DEED made the 24th day of July in the year 1961.

BELMEEN

овао

Insiter called the "Grantor," of Tennessee with principal office in Nashville, Davidson County, Tennessee, here-CENERCO luc., a corporation duly incorporated under the laws of the State

GNA

collectively the "Grantee," Seventh Avenue, North, Nashville, Tennessee, sald Trustees being hereinalter called Trustees dated July 6, 1945, the post office address of said Trustees being 111 RETIREMENT IRUST established by agreement between General Shee Corporation and said Tennessee, IRUSTEES UF THE GENESCO (formerly General Shop Corporation) EMPLOYEES W. M. JARMAN, B. H. WILLINGHAM, and H. N. CARMICHAEL, all of Hashville,

MILNESSEIH:

lennessee, to with described real estate in the Town of McMinnville, County of Warren and State of grant and convey to the said Grantee, its successors and assigns, all the following hand paid, the receipt whereof is hereby acknowledged, the said Grantor does hereby That in consideration of \$1 and other good and valuable considerations in

A tract of land located in the first civil district of Warren County, Tennessee and located on the Worth side of Sparta Street (U.S. Highway 70 S.) in the Town of McMinnville, First Civil District of Warren County, Tennessee, beginning at a stake in the corner of the Cumberland Lumber & Manufacturing Co., Inc. lot, formerly the A. P. Rich lot, said stake being 8.4 feet in Highway Wo. 1 (U.S. Highway 70 S.), said line of 8.4 feet from the center of the culvert tuns parallel with the wing of the cultert, said culvert being constructed of concrete; thence from vert, said culvert being constructed of concrete; thence from the center of the culvert by Worth 50 L/2 degrees East Anl.5 and beginning corner (stake) Worth 50 L/2 degrees East Anl.5 and beginning corner (stake) Worth 50 L/2 degrees East Anl.5 feet to an iron pin; thence north 59 degrees 39 minutes East 209 leet to an iron pin; thence worth 59 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 209 leet to an iron pin; thence worth 50 degrees 39 minutes East 200 leet to an iron pin; thence worth 50 degrees 39 minutes East 200 leet to an iron pin; thence worth 50 degrees 39 minutes East 200 leet to an iron pin; thence worth 50 degrees 39 minutes fine 50 leet fine 50 leet fine 50 leet 5

line of property owned by the Town of McMinnville, 381 feet to a stake in the right-of-way of the N. C. and St. L. Ewy.; thence with the N. C. & St. L. Rwy. right-of-way South A2 I/2 degrees with the N. C. & St. L. Rwy. right-of-way South A2 I/2 degrees & Manufacturing Company, Inc.; thence with said Cumberland Lumber & Manufacturing Co., Inc. line south 22 degrees 51 minutes East A22.8 feet to the place of beginning.

Together with the building, improvements and appurtenances now on said land or any part thereof.

Being the same property conveyed to Kingsboro Mills, Inc. (now Ingsboro Mills, a GENESCO division, by statutory merger effective June 23, 1961) by Deed dated January 20, 1961 of record fective June 23, 1961 by Deed dated January 20, 1961 of record in merger effective Supervisers.

and interest thereto belonging to the said Grantes, its successors and assigns, forever, TO HAVE AND TO HOLD said tract or parcel of land, with the estate, title

.aldmis set ni

Grantor covenants with the said Grantee that it is lawfully seized and possessed of said tract or parcel of land, in fee simple, has a good right to convey it, and the same is unencumbered except by a certain guaranty agreement constituting a mortgage on said property, of record in Book 120, page 35, of said Register's Office, and by taxes for the year 1961 which will be paid by the Grantor.

Grantor further covenants and binds itself, and its successors, to warrant and forever defend the title to said land to the said Grantee, its successors and assigns, against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, said GENESCO Inc. has caused its corporate name to be hereto signed by its duly authorized officers, on this the 24th day of July, 1961.

GENESCO Inc.

ATTEST:

STATE OF TENNESSEE,

CCUNTY OF DAVIDSON.

On this the 24th day of July, 1961, before me, D.D. Glavs Ir. a Notary Public, personally appeared T.P. SANNERS, who acknowledged himself to be Vice President of GENESCO Inc., a corporation, and that he as such Vice President, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as Vice President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My commission expires:

T, Complete Inplies July 23, 1251

STATE OF TENNESSEE, WARREN COUNTY, 52, 30

Received to record the liday of Levely 19 kloth we would be Note Book to Page 17 and Received to Black Book to 12 1 page 18 to 12 1 page 19 to 12 to 12 page 19 to 12 to 12 page 19 to 12 to 12 page 19 to 12 to

Witness my band J_31-61

272-311

Address New Owner:	Send Tax Bills to:	Map-Parcel Numbers
[Charles Earl Maybery [Joyce Rose Maybery [Route 10, Box 55 [McMinnville, TN 37110 [[New Owner [] [] []	1.58 P-G-9
This instrument prepare	d by: Boult, Cummings, C	onners & Berry (RFW)
P.O. Box 198	062, Nashville, Tennesse	e 37219

WARRANTY DEED

FOR VALUABLE CONSIDERATION, the receipt and sufficiency of which are acknowledged, Genesco Restricted Investments Pension Trust ("Grantor") has bargained and sold, and hereby transfers and conveys to Charles Earl Maybery and wife, Joyce Rose Maybery ("Grantee"), their heirs, successors and assigns, certain land in Warren County, Tennessee, being more particularly described in Exhibit A attached hereto and incorporated herein by reference (the "Property").

TO HAVE AND TO HOLD the Property with all appurtenances, estate, title, and interest thereto belonging to Grantees, their heirs, successors and assigns, forever.

This conveyance of the Property, and all covenants and warranties contained herein, are made expressly subject to any and all liens affecting the property.

Grantor covenants with Grantees that Grantor is lawfully seized and possessed of the Property in fee simple; that

	STATE OF TENNESSEE COUNTY OF DAIDON
	The actual consideration or value, whichever is greater, for this transfer is \$67,000.00
	Edrard W Graham A-
; : :	Subscribed and sworn to before me this 24th day of November, 1992.
	Rotary Public La Jan
	My Commission Expires: 11 /27/93.

Grantor has a good right to convey the Property; and that the Property is unencumbered except as set forth herein.

Grantor further covenants to warrant and forever defend the title to the Property to Grantees, their heirs, successors

and assigns against the lawful claims of all persons. Executed this 24th day of November, 1992. GENESCO RESTRICTED INVESTMENTS PENSION TRUST Title: This is improved property, known as 919 Sparta Street, McMinnville, TN. STATE OF TENNESSEE COUNTY OF DAVIDED Personally appeared before me, Notary Public, Edward W. Graham J., with whom I am personally acquainted, and who acknowledged that he executed the foregoing instrument for the purposes therein contained and who further acknowledged that he is Chairman of the Genesco Restricted Investments Pension Trust, a serperation, and is authorized to execute this instrument on behalf of said corporation. WITNESS my hand, at office, this 24th day of November, 1992. My Commission Expires: 11 STATE OF TENNESSEE, WARREN COUNTY and recorded in AVD Book 272, Series State Tax Poid \$3.553 Fee LAA Recording Fee 100 Total 264.2 Witness My Hand. Receipt No. 423

GENESCO RESTRICTED LINESTFENTS PENSION TRUST (SURVEY)

6.53 ACRES, FIRST DISTRICT, WARREN CO., TN.

Seginning on a stake in the Morth margin of Sparta Street, the same being a corner of Cumberland Lawber and Manufacturing Co., Inc. let, formerly the A. P. Rich let, said stake being 8.4 feet in a northwardly direction from the center of a culvert of State Mighmay No. 1 (U. S. Highway 70 South), said line of 8.4 feet from the center of the culvert runs sarallel with the wing of the culvert, said culvert being constructed of concrete, and running thence from the seginning corner North 45°30' East, 441.44 feet with the North margin of Sparta Street to an existing iron size; thence North 16°44' West, 269.11 feet to an existing iron pin; thence North 60°44' East, 207.49 feet to an iron stake, a corner of Town of McMinnville let; thence North 49°45' Ment, 379.69 feet with the Town of McMinnville let to an firon stake in the South right of way of Caney Fork and Western Railroad; thence South 41°11' West, 558.15 feet with the South right of way of Caney Fork and Western Railroad to an existing iron size; thence South 23°48' East, 418.36 feet to the beginning. Containing 6.53 acres.

Deed book No. 128, Page 547, R.O.W.C.T.

Surveyed by Earl W. Smith, R.L.S., TERR. NO. 466 P. O. Nox 423, McMinnville, Tenn. 37110

473-5878

٠, ١

DEC 9 1992
Carolyn Miller
Property Assessor

Refrended

YX

Register

This Instrument Prepared By: STANLEY & BRATCHER, ATTORNEYS 101 West Main Street McMinnville, TN 37110

Map No. 158 P 6 Parcel No.

WARRANTY DEED

FOR AND IN CONSIDERATION of the sum of \$10.00, cash in hand paid, receipt of which is acknowledged, and other good and valuable considerations, we, CHARLES EARL MAYBERY and wife, JOYCE ROSE MAYBERY, hereinafter called Grantor(s), hereby convey(s) the following described land to BILLY A. HARPER and JOHN M. PARKER, as tenants in common, hereinafter called Grantee(s). Grantor(s) covenant(s) with Grantee(s) that Grantor(s) are seized and possessed of said land, have a right to convey it, warrants the title against all persons, and it is unencumbered unless otherwise stated herein. Said land is in the Fir Civil District of Warren County, Tennessee, and described as follows:

Beginning on a stake in the North margin of Sparta Street, the same being a corner of Cumberland Lumber and Manufacturing Co., Inc. lot, formerly the A. P. Rich lot, said stake being 8.4 feet in a northwardly direction from the center of a culvert of State Highway No. 1 (U.S. Highway 70 South), said line of 8.4 feet from the center of the culbert runs parallel with the wing of the culvert, said culvert being constructed of concrete, and running thence from the beginning corner North 65 deg. 30 min. East, 441.44 feet with the North margin of Sparta Street to an existing iron pipe; thence North 18 deg. 04 min. West, 289.11 feet to an existing iron pin; thence North 60 deg. 44 min. East, 207.49 feet to an iron stake, a corner of Town of McMinnville lot; thence North 49 deg. 45 min. West, 379.69 feet with the Town of McMinnville lot to an Iron stake in the South right of way of Caney Fork and Western Railroad; thence South 41 deg. 11 min. West, 558.15 feet with the South right of way of Caney Fork and Western Railroad to an existing iron pipe; thence South 23 deg. 08 min. East, 418.36 feet to the beginning. Containing 6.53 acres, more or less, as per the survey of Earl W. Smith, R.L.S. No. 466, P.O. Box 423, McMinnville, Tennessee, dated 10/31/92.

For source of title, see Deed Book 272, Page 379, Register's Office, Warren County, Tennessee.

This the 10th day of ______, 1994.

Charles Earl Mayberry

Jose Rose Maybery

STATE OF TENNESSEE

COUNTY OF WARREN

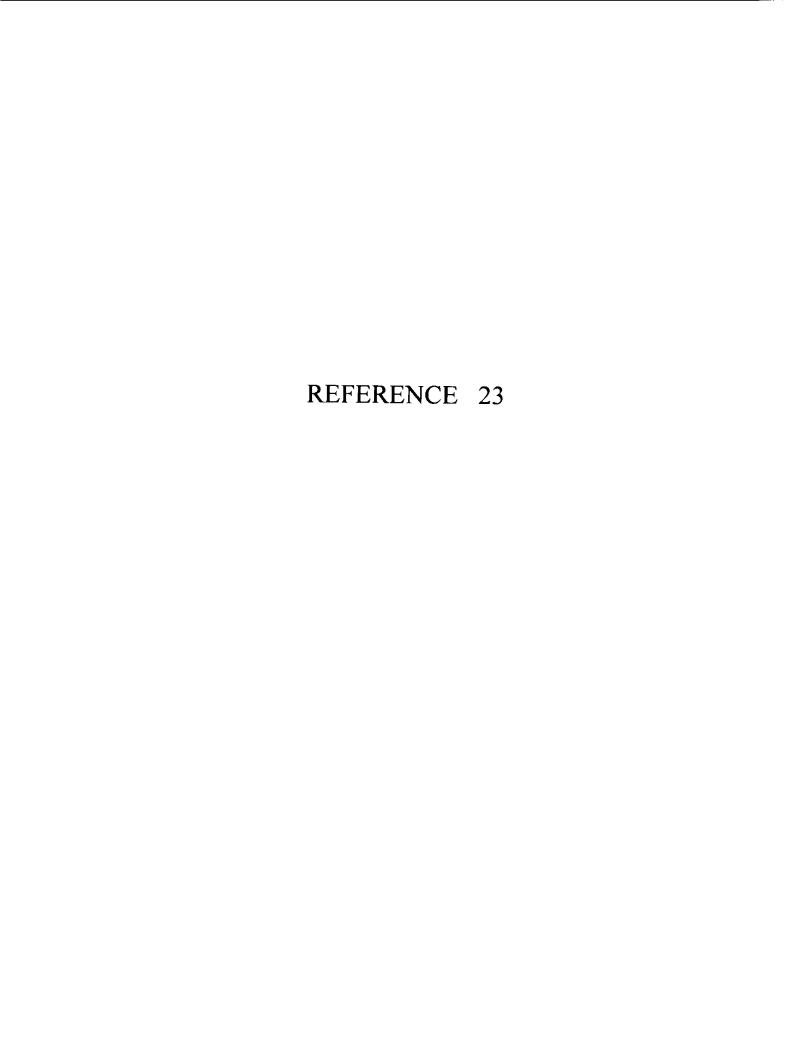
Personally appeared before me, the undersigned authority, the above named CHARLES EARL MAYBERY and wife, JOYCE ROSE MAYBERY, with

whom I am personally acquainted, and who acknowledged that they executed this warranty deed for the purposes therein contained. WITNESS my hand and official seal of office at McMinnville, Tennessee, this the day of _______, 1994. My Comm. Exp. : The consideration for this transfer, or the value of the interest in property transferred, whichever is greater is \$ 175,000. Day W. Sobuts Sworn to and subscribed before me this the // day of ____, 1994. To Be Transferred REGISTER/NOTARY MAY 1 1 1994 My Comm. Exp.: Con colller Property Assessor Person or Entity Responsible for Payment of Taxes: Billy A. Halper, Fr. Box 54 McMinnyille, 1N37110 PROPERTY OWNER HAME John M PARKER STREET P.O BOY 850 THILA homa STATE JUZIP 37388 Address of Property Owner(s): STATE OF TENNESSEE COUNTY OF WARREN The foregoing instrument and certificate were noted in Note ook 19, Page 179, at 3:45 o'clock 19. M. on the day of 1994, and recorded in Deed Book 279, Page <u>79</u>, Page _ State Tax Paid \$ 647.50

Recording Fee \$ 8.00

Receipt No. 53978

NOTICE: FAILURE TO PROPERLY RECORD THIS INSTRUMENT IN THE REGISTER OF DEEDS OFFICE COULD SERIOUSLY JEOPARDIZE YOUR RIGHTS. THE PREPARER OF THIS DEED MAKES NO REPRESENTATION AS TO THE STATUS OF THE TITLE OF THE PROPERTY DESCRIBED HEREIN OR AS TO THE ACCURACY OF THE DESCRIPTION.

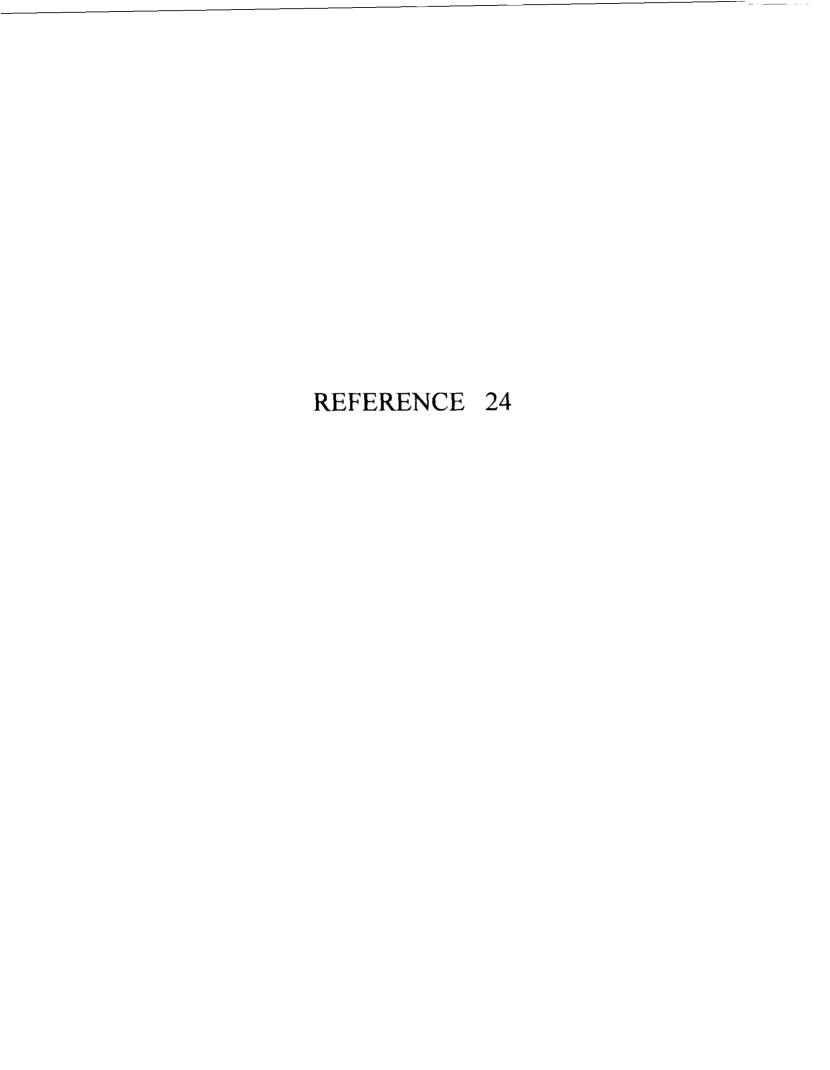


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Attach to Memo 3/24/94 Warren Co. General File

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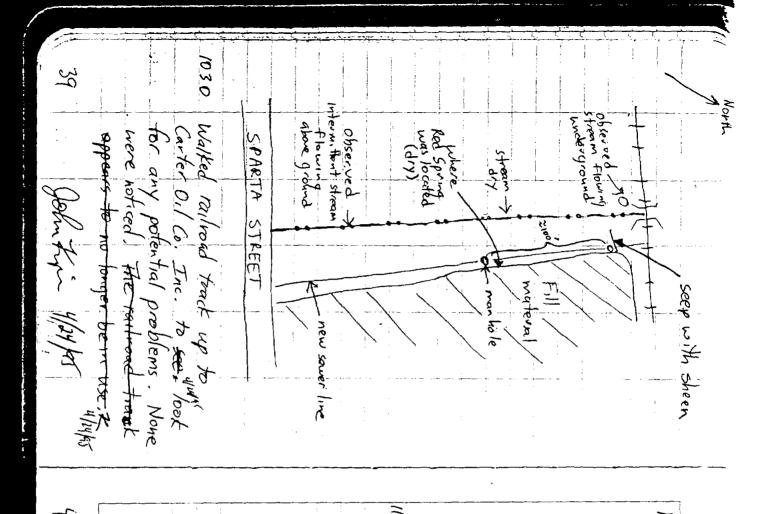
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0/0/								38
Date: 4/24/95 Facility Cumberland Lumber Co.	Type facility: Unused lot with contaminated	County: Warlen City: M. Minnville State: TN	Purpose of visit: Obseive Red Spring, huming and Obtain property ownership	State Personnel: John Kizer Other People contacted: Secretary at Registe of Deeds office	Photos No Samples: No	Weather: Cloudy, misting rain, &s. Vehicle: 51-HWS9 Milage: 181		31 John Kyy 1/24/95

steam was site. The intermithent steam was siry and hed spring was thoung. Who to the hath dury he past week, both were experted to be anning. That the intermittent stream was flowing underground in this area and emerging above gound this area and emerging above sparts st. Upstream not to the cailroad trades is a seven the stream ouch be seen thoung. This may be part of the old seven. No contamination was noticed in the small seep that independ asken, he were sever line meets was a small seep that had a sheen. Seet on nort page.

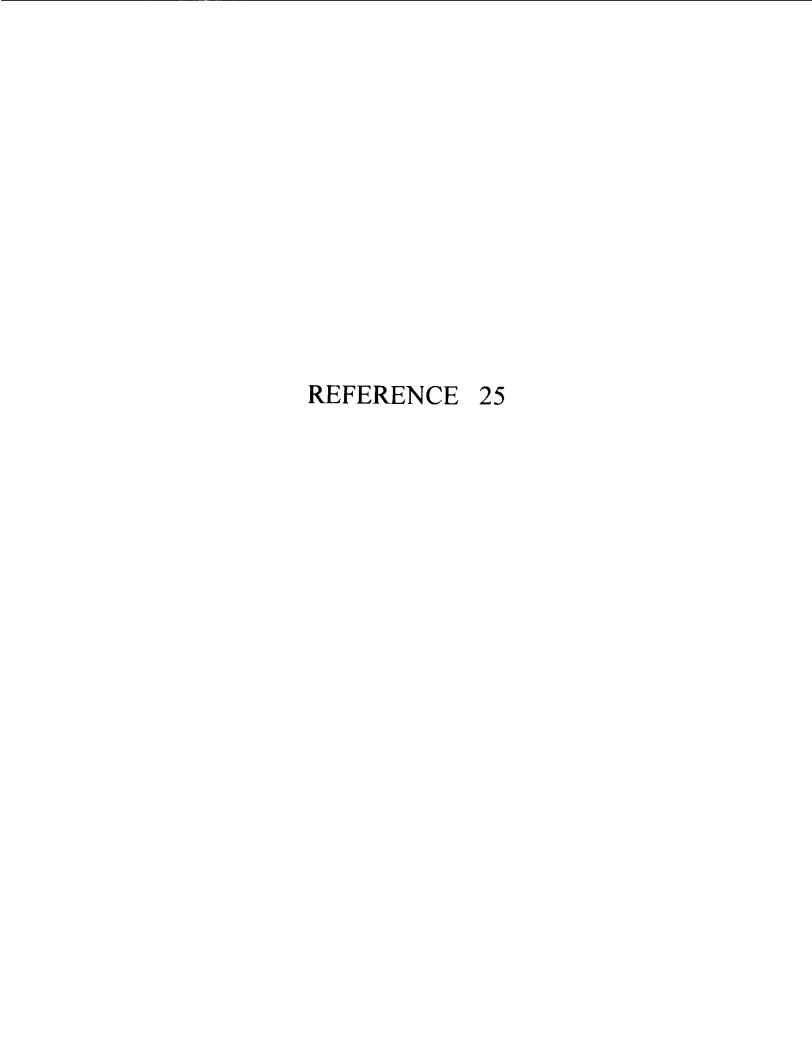
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Went to Register of Dads
office and Assessor of Proporties
office to determine the owner
of the 6.53 acre lot were
formfit Regers used to ba. The
currer is billy A. Harper. The
secretary at the Rainter of Deeds
office stated that formfit Regers
the weeks ago.

Went back by side. In Front of
the now empty tankt Rodors building
15 a sign that states Warehouse
Space thailable, for safe / rent/
lease. The intermittent stream
13 homes, oburnstream from the
13 homes, oburnstream from the

from Performed on and off site recomquisance. Obtained records of property ownership.



CERCLA

89-506

وستنعل

NEW SITE DISCOVERY INFORMATION

....ne of Person

Completing SD Report: Tim Stewart

Date: May 17, 1994

Site Name: Cumberland Lumber Co.

County: Warren

Site Address: 202 Red Road

City: McMinnville

Zip Code: 37110

Latitude: 35/41/15/N

Size of site: 350' x 300'

Longitude: 85 /45 / 45 / W

Quadrangle: Mcminnville

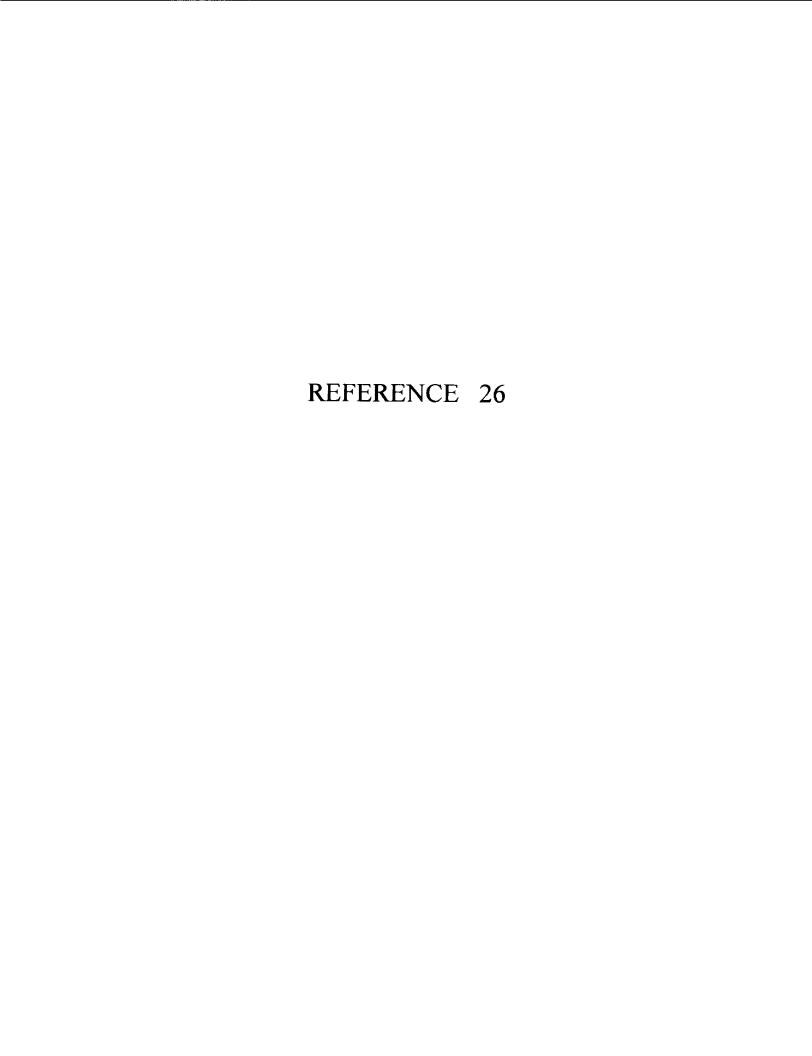
General Description of Site: Old abandoned buildings, 9 visible drums - some bulging some unsealed, old foundations of two additional buildings, Red Spring behind buildings (see photos) presently used for storage.

Site Status: Active X Inactive RCRA Facility? ____yes_X_no

Years of Operation 1962 to current

Waste believed present and quantities: Toluene, TCE, Benzene, 1, 1-DCA, 1,1-DCE, Xylene, Ethyle Benzene (see sample results)

Brief description of potential hazard: Spring has strong odor and flows through a residential area into Barren Fork River



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

Warren Co. Gen. File

DATE: 3/24/94

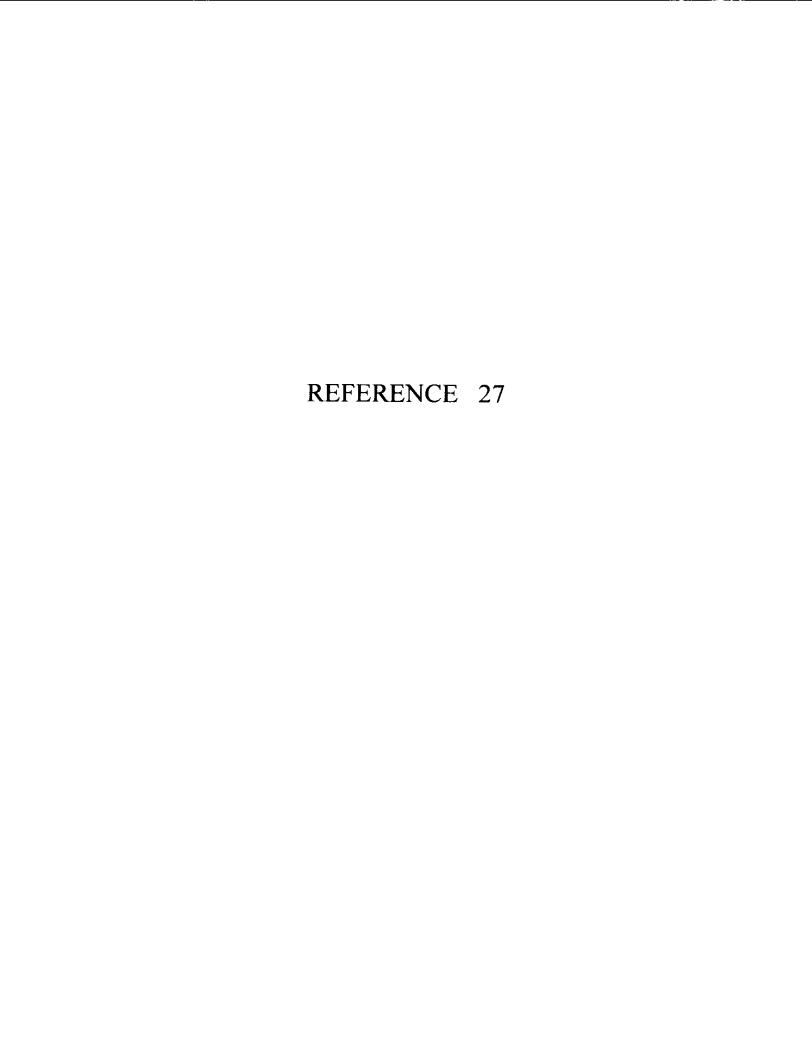
TIME: 8:15 am

SUBJECT: Drum Removal - Warren Co.

TO: DSF Files
FROM: Tim Stewart

RE:

I called Ray I pivey fr. of Cumberland Lumber Congrany in 10 Minnvill
to notify him of the dueme on the projects at Red Road and Aprila It.
Combidend Lundy. Co owns the property. He stated that while they seem
it, the court Emergery Management agency has been using the site.
He would look into and correct the drew wellen.
7 in Stora
3/24/94
·



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

BKA 6/30
File: Warnen Co
General
Copy: C.O.

OFFICE CORRESPONDENCE

DATE: 6/30/94

TIME: 2:02

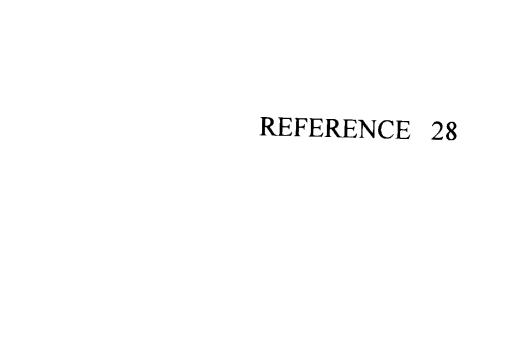
TO: DSF Files

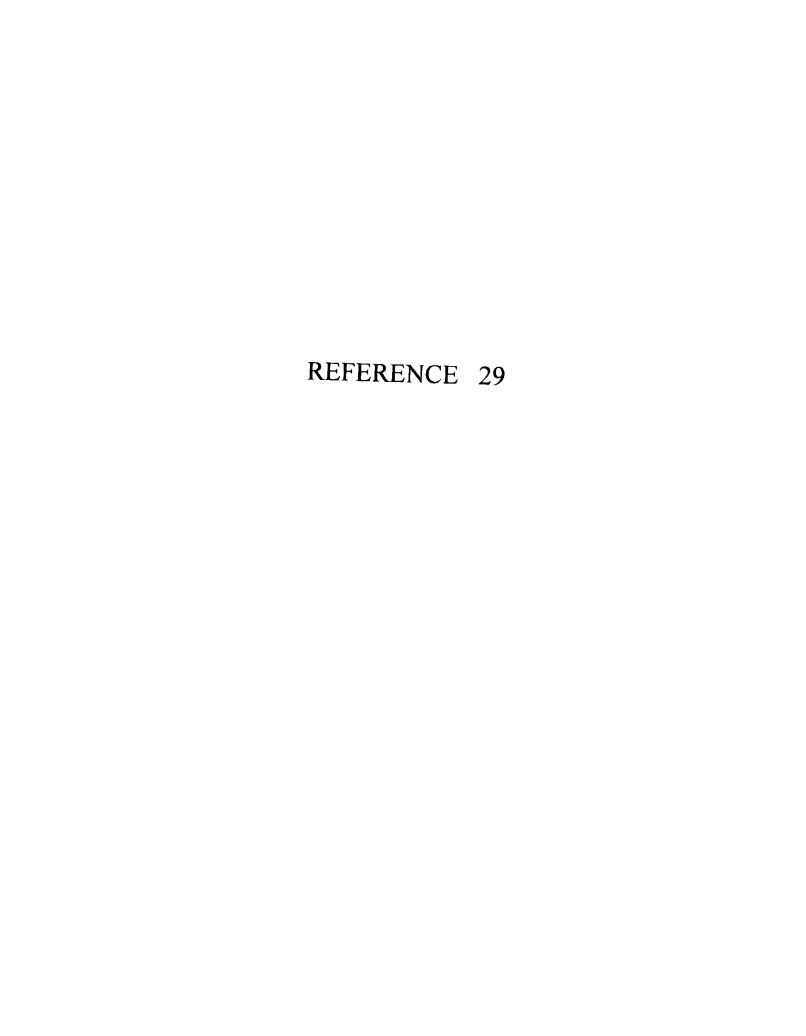
SUBJECT: Drum Removal

FROM: Tim Stewart

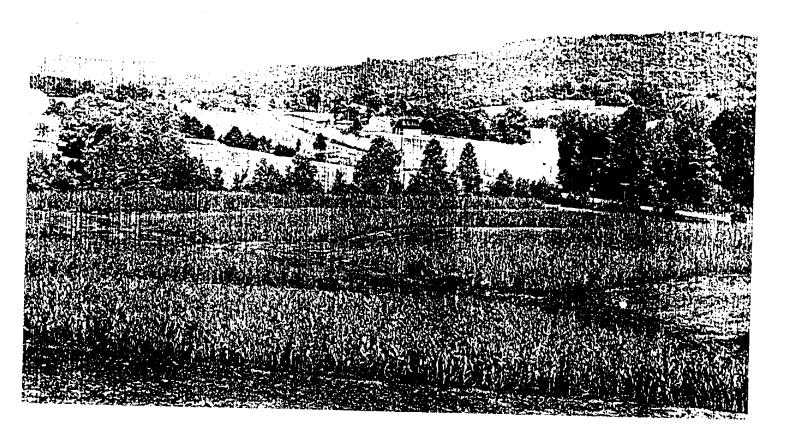
RE: Cumberland Lumber

John Jackson - Cumberland Lumber (615) 473-9542
form factson - Cumbuland Lumber (615) 473-9542 Empty roofing to drums at abandoned buildings will be picked up soon when the disposal truck makes its rounds. a copy of the manifest will be mailed to me once removed.
soon when the disposed truck makes its rounds. a copy of
the manifest will be mailed to me once removed.
Tun towar
6/30/94





SOIL SURVEY Warren County, Tennessee



UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
In cooperation with
TENNESSEE AGRICULTURAL EXPERIMENT STATION



46 SOIL SURVEY

compactive effort, each time at a successively higher moisture content. The density (unit weight) of the soil material increases as the moisture content increases until the optimum moisture content is reached. After that, the density decreases as the moisture content increases. The highest density obtained in the compaction test is termed "maximum density." Data on moisture and density are important in earthwork because, as a rule, the soil will be most stable if it is compacted to the maximum density when it is at the optimum moisture content.

The results of the mechanical analyses show the relative proportions of the particles of different sizes. The liquid limit and the plasticity index indicate the effect of water on the consistence of the soil material. As the mois-

ture content of a clayer soil increases from a very dry state the material changes from a semisolid to a plastic star. As the moisture content is further increased, the material changes from a plastic to a liquid state. The plastic line is the moisture content at which the material passes from a semisolid to a plastic. The liquid limit is the moisture content at which the material passes from a plastic to liquid. The plasticity index is the numerical difference tween the liquid limit and the plastic limit. It indicates the range of moisture content within which a soil materials in a plastic condition.

Table 4 gives two engineering classifications for easoil sample. These classifications are based on the liquidimit, the plasticity index, and the data obtained by a

Table 5.—Brief description of soils and the [Dashes indicate information is not availa-

Classification Depth Description of soil and site Soil from Map surface USDA texture Inches ()-(() Loam. AnB Allen loam, 2 to 5 percent slopes. Well-drained soils formed in local alluvium AnC Allen Joam, 5 to 12 percent slopes. on foot slopes and benches; limestone 10 - 40Clay loam... bedrock at depth of 5 to 25 feet. An D Allen loam, 12 to 20 percent slopes. 40 - 60 Clay loant or clay Allen loam, 20 to 30 percent slopes. AnE Well-drained soils formed in local alluvium AaD3 Allen clay loam, 12 to 20 percent slopes, se-0 - 40Clay loam... on foot slopes and benches; upper 4 to 6 inches of soil washed away; limestone 40.60 verely croded. Clay loam or clay rock at depth of 5 to 25 feet. Cobbly loam ... Allen cobbly loam, 5 to 20 percent slopes. 0 - 14Well-drained soils formed in local alluvium AcD AcE Allen cobbly loam, 20 to 30 percent slopes. on foot slopes and benches; cobbles 3 to 14 - 60Cobbly clay loam 10 inches across on surface and in profile; limestone bedrock at depth of 5 to 25 Baxter cherty silt loam, 5 to 12 percent slopes. Well-drained cherty soils on rolling to steep Cherty silt loam Cherty silty clay 0 - 8BaCBaxter cherty silt loam, 12 to 20 percent slopes. uplands; formed from cherty limestone; BaD8-20Baxter cherty silt loam, 20 to 50 percent slopes. Baxter cherty silt loam, 30 to 50 percent slopes. depth to limestone rock is 5 to 30 feet. BaE Joann. BaF 20-72 Cherty clay ... Cherty silty clay BcC3 Baxter cherty silty clay loam, 5 to 12 percent Well-drained cherty soils on rolling to hilly 0 - 18uplands; formed from cherty limestone; slopes, severely eroded. loam. BcD3 Baxter cherty silty clay loam, 12 to 20 percent upper 4 to 6 inches of soil washed away; Cherty clay.... slopes, severely eroded. depth to limestone rock is 5 to 30 feet. Bc E3 Baxter cherty silty clay loam, 20 to 30 percent slopes, severely eroded. 80E Bodine cherty silt loam, 20 to 45 percent slopes. Very cherty soils on steep hillsides; formed Cherty silt loam from cherty limestone; depth to bedrock 8-60 Cherty silt loam is 2 to 10 feet. Br Bruno loamy sand. Very sandy soil on first bottoms; flooded 0.60Loamy sand. nearly every winter. CaB Captina silt loam, 4 to 3 percent slopes. Moderately well drained soil with a fragi-0-10Silt loam..... pan; on low terraces and foot slopes; 2 to 10/24Silt loam..... Silt loam..... 3 feet to seasonally high water table 2; 24 - 40limestone bedrock at depth of 5 to 30 Silty clay loam. 40 - 60ChB₂ Christian silt loam, 2 to 5 percent slopes, Well-drained soils on rolling and hilly up-Silt loam lands; formed from siltstone and lime-stone; depth to rock is 3 to 10 feet. Silty clay..... 8 - 60Christian silt loam, 5 to 12 percent slopes. ChC

See footnetes at end of table.

Table 5.—Brief description of soils and their estima

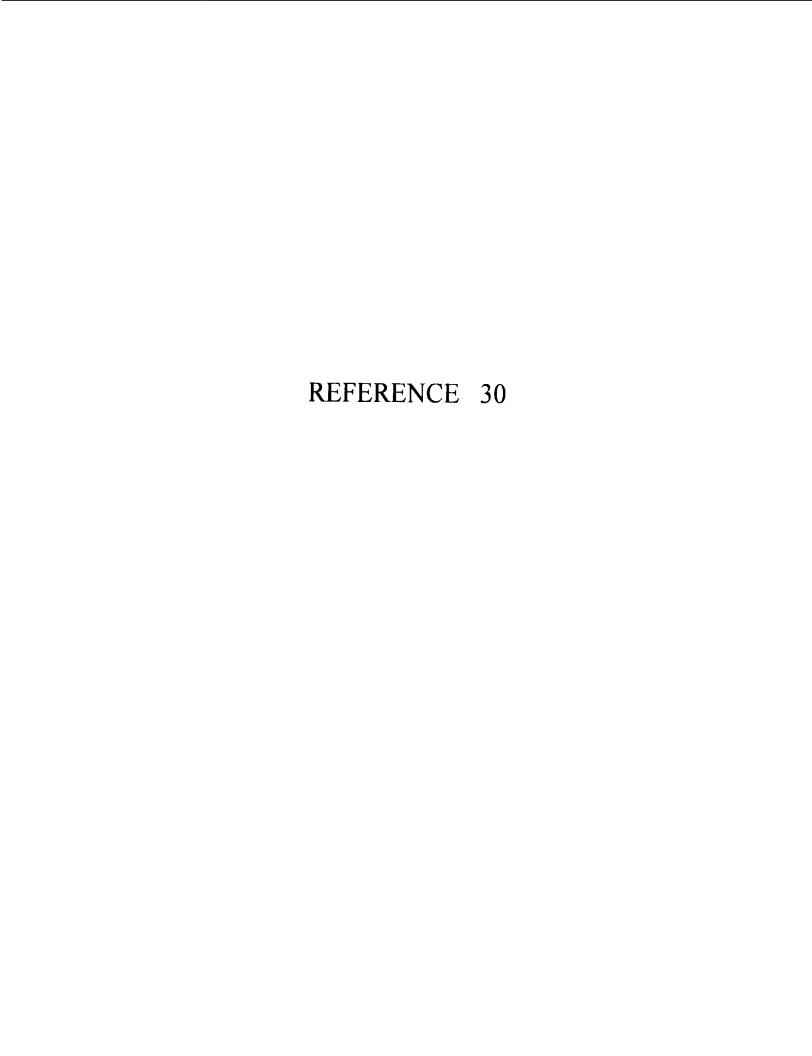
			Depth	Classification USDA texture
Map symbol	, Soil	Description of soil and site	from surface	USDA texture
	Continued			
ChC2	Christian silt loam, 5 to 12 percent slopes,			
ChD ChD2	eroded. Christian silt loam, 12 to 20 percent slopes. Christian silt loam, 12 to 20 percent slopes, eroded.			
CnC3	Christian silty clay loam, 5 to 12 percent slopes,	Well-drained soils on rolling and hilly up-	Inches 0 6 6 70	Silty clay loam
CnD3	severely eroded. Christian silty clay loam, 12 to 20 percent- slopes, severely eroded.	lands; formed from siltstone and lime- stone; upper 4 to 6 inches of soil washed away; depth to rock is 3 to 8 feet.	6-50	Silty chry
Co	Cobbly alluvia) land.	Cobbly land on first bottoms; flooded nearly every winter; bedrock at depth of 4 to 15 feet.	1) -30	Very cobbly saw loam.
Cs A Cs B	Cumberland silt loam, 0 to 2 percent slopes. Cumberland silt loam, 2 to 5 percent slopes.	Well-drained soils on high terraces; formed in old alluvium; depth to bedrock is 6 to	0 -10 10 -24	Silt loam Clay or clay loan
CsC2	Cumberland silt loam, 5 to 12 percent slopes, eroded.	30 feet.	24-85	Clay
CuC3	Cumberland silty clay loam, 5 to 12 percent slopes, severely croded.	Well-drained soils on high terraces; formed in old alluvium; upper 4 to 6 inches of soil	0-30	Clay or sil(y clay loam.
Cu D3	Cumberland silty clay loam, 12 to 20 percent slopes, severely croded.	washed away; depth to bedrock is 6 to 30 feet.	30+85	Clay
DkB	Dickson silt loam, I to 4 percent slopes.	Moderately well drained soil with a fragi- pan; on uplands and foot slopes; 2 to 3 feet to seasonally high water table; depth to limestone rock is 6 to 30 feet.	$\begin{array}{ c c c c }\hline 0.10 \\ 10.24 \\ 24-38 \\ 38-50 \\ \hline \end{array}$	Silt loam Silt loam Silt loam Silty clay loam.
Du	Dunning silty clay loam.	Very poorly drained black soils on first bottoms; flooded nearly every winter.	()-10 10 -60	Silty clay loam Silty clay or clay
Ek	Elkins silt loam.	Very poorly drained black soil in upland depressions.	()-3()	Silt loam
EtC EtD EtE	Etowah cherty silt loam, 5 to 12 percent slopes. Etowah cherty silt loam, 12 to 20 percent slopes. Etowah cherty silt loam, 20 to 30 percent slopes.	Well-drained cherty soils on foot slopes and terraces; chert is mostly less than 3 inches across; bedrock at depth of 5 to 15 feet.	0-16 16-42	Cherty silt loam Cherty silty clay loam.
EwB EwC EwD	Etowah silt loam, 2 to 5 percent slopes. Etowah silt loam, 5 to 12 percent slopes. Etowah silt loam, 12 to 20 percent slopes.	Well-drained soils on foot slopes and terraces; bedrock at depth of 5 to 30 feet.	0 14 14-50	Silt loam Silty clay loam
Gd	Gullied land.	Land consisting of a network of shallow and deep gullies; soil material between the gullies formed from limestone and is fine textured; bedrock at depth of 0 to 30 feet.	(2)	Clay or cherty c
Gu	Guthrie silt loam.	Poorly drained soil on upland flats; formed in 2 to 3 feet of loess over limestone; bedrock at depth of 10 to 30 feet; seasonally high water table at depth of less than 1 foot.	$\begin{array}{c} 0.35 \\ 35.50 \\ 50.72 \end{array}$	Silt loam Silty clay loam Silty clay
НаВ НаС	Hartsells loam, 2 to 5 percent slopes. Hartsells loam, 5 to 12 percent slopes.	Well-drained soils on Cumberland Plateau uplands; formed from sandstone; bedrock at depth of 2 to 6 feet.	0-10 10-36	Loam Clay loam or b
He	Huntington cherty silt loam.	Well-drained cherty soil on first bottoms; formed from cherty limestone; flooded for a few days in winter; bedrock at depth of 5 to 25 feet.	0.40	Cherty silt loan

See footnotes at end of table.

SOIL SURVEY

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			olded to bus to seton	mol 942
vup ao áup áijis 	09:01: 01:17: 16:8: 8:0	Aloderately well drained soil with a tragipant formed from 2 to 3 feet of loess over residanta from linustone; depth to bedrock is 15 to 30 feet, seasonally high water table at a depth of 1½ feet.	Sango siit loam.	۳S
		More than 50 percent of surface covered by	Rock land.	ья
		See the descriptions and estimates given for the Ramsey soils and the Jefferson soils.	bercent slopes. Ramsey-lefferson stony complex, 20 to 45	BIE
Sandy Joans	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Excessively drained, very rocky, moderately steep soils on the Cumberland Plateau; between 15 and 50 percent of surface covered by sandstone; bedrock at depth of 0 2 teet.	Ramsey very rocky sandy loant, 10 to 20 per- cent slopes.	۵۶۶
d ylams to muod t	†:6+ <u>1</u> 1-0	Well-drained to excessively drained soils on sloping to steep uplands of the Cumber-land Plateau; acid sandstone bedrock at depth of 10 to 24 inches.	Ramsey form, 5 to 12 percent slopes. Ramsey form, 12 to 20 percent slopes. Ramsey loun, 20 to 30 percent slopes.	RaC RaD RaE
Sill loan	39-90 10-39 0:10	Mell-drained soits on uplands of the High-seasof loss to 3.5 mi bournet time from burselond; brothed from limestone; bedrock at 10.00 from the from	Mountview silt loam, 2 to 5 percent slopes. Mountview silt loam, 5 to 12 percent slopes, Mountview silt loam, 5 to 12 percent slopes, severely eroded.	M°C M°C
silt john maol ilis	09-21 09-21	Well-drained soils on foot slopes in the High-land Run; formed in old allowinn from linnestone soils; bedrock is at depth of 5 to 30 feet.	Alinyale silt loam, 2 to 5 percent slopes. Alinyale silt loam, 5 to 12 percent slopes.	MuB
annot His	01::0 01::0	Poorly drained silty soil on first bottoms; flooded for a few days nearly every winter	Melvin silt loam.	θM
Chay John Learn	40 -20 10-40 0+10	Well-drained soils on uplands of the Cum- berland Plateau; formed from acid sand- stone; bedrock at depth of 2.5 to 8 feet.	Linker loam, 2 to 5 percent slopes. Linker loam, 5 to 12 percent slopes.	247 247
minol Ilis	U⊉ ()[()1=()	Moderately well drained or somewhat poot- by drained loamy soil on first bottoms; flooded for a few days nearly every winter.	.maof this obishmid	uη
Silt loam Silt loam Silt loam Silt loam	72-00 54-42 8-54 8-54	Somewhat poorly drained soil with a tragi- pan; depth to bedrock is 15 to 30 feet; seasonally high water table at a depth of less than I foot.	Jamyrence silt loam.	ניק
osol ybans yledo') p - ybans yledo')	05-01	Well-drained cobbly soils formed in local alluvium on foot slopes and benefice cobbles 3 to 10 inches across on surface and in profile; bedrock at depth of 3 to 25 feet.	Judosas goppjy sandy Jonn, 5 to 20 percent	ا
mod yalo no maod mod yalo no maod taon or chay lom	30 20	Mell-diahoch soils lormed in oh alluvium -bod (plads ban actions med from toek at depth of 8 to 25 feet.	Jefferson loam, 2 to 5 percent slopes. Jefferson loam, 12 to 20 percent slopes. Jefferson loam, 12 to 20 percent slopes, severely efferson loam, 12 to 20 percent slopes, severely efferson loam, 12 to 20 percent slopes, severely efferson loam, 12 to 20 percent slopes.	JeB JeC JeD3 JeD3
unol Ilis	(1 () ()	Well-drained loanry soil on first bottoms; Mell-drained low a few days in winter.	Tundallis notginitum H	υH
om)xə) VGS(I	oarjans moaj	Description of soil and site	lio2	dv14 lodinys
Chassification	digott			



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

DATE:

April 26, 1995

TO:

Brenda Apple, Mgr. NFO

FROM:

John T. Weakley

SUBJECT:

Threatened and Endangered Species for Cumberland Lumber Company, 89-506

Enclosed is the T & E report for Cumberland Lumber Co.



17 4/26/95

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

April 24, 1995

MEMORANDUM

To: Mr. Frank Grubbs, Deputy Director

Division of Superfund, TDEC

From: Andrew N. Barrass, Ph. D.,

Environmental Review Coordinator Division of Ecological Services, TDEC APR 27 1925
TENNESSE DEPARTMENT
OF BRUSSERVATION
AND CONSERVATION

Subject: Project review information for endangered species and critical or sensitive habitat

Please be advised that a review of our Division's Biological Conservation Data System, BCD, indicates recorded threatened and/or endangered species within a four mile radius of the proposed project sites. The review is for the proposed <u>Cumberland Lumber Company site</u>, near <u>McMinnville</u>, <u>Warren County TN</u> project site(s). The information is listed by quad map and is attached

The results of our review do not mean that a comprehensive biological survey has been completed. We would suggest that a survey of the project sites be conducted subsequent to project implementation. Please notify our office of your findings.

Please be advised, however, that this information is sensitive to the protection of rare habitat, threatened or endangered species, and natural areas which our Department has the responsibility to protect. Therefore, we would request that this information <u>only</u> be used as a research tool by your professional staff and not be made available to the public or anyone outside of your Division.

Additionally, our review of the existing data bases indicates recorded threatened or endangered species occurrences adjacent to the PPE of the project site. We would request that you consult with our staff scientists concerning these species and methods of avoiding impact to these populations. These species have very specific or rare habitat. Please see the attached habitat listing for further information.

Page 3. Mr. Frank Grubbs, DSF April 24, 1995

Please find attached the listings of the various data occurrences or elements from our Biological Conservation Data System, BCD, that have been retrieved from our computer data bases. The information provided is current for this quarter of the calendar year. Our information is continuously being updated and future searches may result in expanded data listings for this specific project investigation.

Definitions of BCD Data Elements:

COUNTYNAME = Tennessee County Name

MANAME = Managed Area Name

QUADNAME = Quad Map Name

SCOMNAME = State Listed, Species Common Name

SITENAME = Site Name for Natural Area, Critical or Sensitive Habitat

SNAME = Species Name

Attachments: (6)

Federal Status Definitions of Tennessee's Rare Plants and Animals

Federally listed species are protected by the Endangered Species Act of 1973 (ESA), which is administered by the U.S. Fish and Wildlife Service (USFWS).

- E/SA Endangered by similarity of appearance to a listed species.
- LE Listed Endangered, the taxon is threatened by extinction throughout all or a significant portion of its range.
- LT Listed Threatened, a taxon likely to become endangered in the foreseeable future.
- PE Proposed Endangered, the taxon is proposed for listing as endangered.
- PT Proposed Threatened, the taxon is proposed for listing as threatened.
- S Synonyms
- C1 Candidate, Category 1. Enough available information exists to propose the taxon for listing, but listing is "precluded by other pending proposals of higher priority." Included are those taxa whose status in recent past is known, but may have already become extinct. Such possibly extinct taxa are indicated by an asterisk (*). Double asterisks (**) indicate taxa believed to be extinct in the wild, but known to be extant in cultivation or propagation.
- C2 Candidate, Category 2. There is enough information available to list the taxon as endangered or threatened, but substantial information regarding biological vulnerability and threat(s) are not currently known or on file to support a proposed rule.
- C3 Candidate, Category 3. Taxa are no longer being considered for listing as threatened or endangered species. The following subcategories are used to further indicate the reason(s) for removal from consideration:
 - **3A** Taxa for which the U.S. Fish and Wildlife Service has persuasive evidence of extinction or of being destroyed. If recovered such taxa might acquire high priority for listing.
 - 3B Names that on the basis of current taxonomic understanding do not represent taxa meeting the ESA definition of "species." Such proposed taxa could be reevaluated in the future on the basis of subsequent research.
 - **3C** Taxa which have proven to be more abundant or widespread than was previously believed and/or those that are not subject to any identifiable threat.

NL -	status varies for different populations or parts of range with at least one part not listed.
XN -	non-essential experimental population.
XE -	essential experimental population.

(Taken from Federal Register, 50(188), September 18, 1985, pp. 37958-37959, and September 27, 1985, pp. 39526-39527.)

Note: The taxa listed as Categories 1 and 2 may be considered as candidates for addition to the list of Endangered and Threatened species, and, as such, consideration <u>should</u> be given to them in environmental planning. Taxa listed as LE, LT, PE and PT <u>must</u> be given consideration in environmental planning involving federal funds, lands, or permits, and <u>should</u> be given consideration in all non-federal activities.

For further information contact USFWS at (615) 528-6481, Tennessee Wildlife Resources Agency (TWRA) at (615) 781-6670 or the Division of Natural Heritage (DNH) at (615) 532-0431. USFWS has prime responsibility for federal status assignment and enforcement and protection of federally listed species. TWRA has responsibility for state status and enforcement and protection of state listed species.

State Status Definitions of Tennessee's Rare Plants

State Status indicates which plants are formally listed as state Endangered, Threatened, or Special Concern under the authority of the Tennessee Department of Environment and Conservation (T.C.A. 70-8-301 to 314, and Rules of Tennessee Department of Conservation, Ch. 0400-8-2). The Department has the valuable assistance of the State's best field botanists, twelve of whom serve on the Scientific Advisory Committee which periodically reviews the list.

- E Endangered, species now in danger of becoming extinct in Tennessee because of:
 - (a) their rarity throughout their range, or
 - (b) their rarity in Tennessee as a result of habitat destruction or restricted area of distribution.
- E* Taxa considered to be Endangered in Tennessee due to evidence of large numbers being taken from the wild and lack of commercial success with propagation or transplantation.
- T Threatened, species likely to become endangered in the immediately foreseeable future as a result of rapid habitat destruction or commercial exploitation.
- S Special Concern, species requiring concern because of:
 - (a) their rarity in Tennessee because the State represents the limit or near-limit their geographic range, or
 - (b) their status is undetermined because of insufficient information.
- P Possibly Extirpated, species that have not been seen in Tennessee for the past 20 years.

(Adapted from Somers, Paul. 1989. <u>Revised List of the Rare Plants of Tennessee</u>. Journal of the Tennessee Academy of Sciences, 64(3): 179-184.)

Note: The taxa listed as E, T, or S should be given consideration in environmental planning. For further information contact the Division of Natural Heritage (DNH) at (615) 532-0431. DNH has prime responsibility for state status assignment and enforcement and protection of state listed plants.

State Status Definitions of Tennessee's Rare Wildlife

State Status indicates which animals are formally listed as state endangered or threatened under the authority of the Tennessee Wildlife Resources Agency (T.C.A. 70-8-104, 70-8-105, and 70-8-107).

- E Endangered- any species or subspecies of wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely within the foreseeable future to become so due to any of the following factors:
 - (a) The destruction, drastic modification, or severe curtailment of its habitat;
 - (b) Its overutilization for scientific, commercial or sporting purposes;
 - (c) The effect on it of disease, pollution, or predation;
 - (d) Other natural or man-made factors affecting its prospects of survival or recruitment within the state; or
 - (e) Any combination of the foregoing factors.
- T- Threatened- any species or subspecies of wildlife which is likely to become an endangered species within the foreseeable future.
- D Deemed in Need of Management- any species or subspecies of nongame wildlife which the executive director of the TWRA believes should be investigated in order to develop information relating to population, distribution, habitat, needs, limiting factors, and other biological and ecological data to determine management measures necessary for their continued ability to sustain themselves successfully.

LIST OF RARE AND ENDANGERED SPECIES FOR MCMINNVILLE AND CARDWELL MIN. QUADS 21 APR 1995

FIC NAME	COMMON NAME	FEDERAL	STATE
·		STATUS	STATUS
BRATES			
S SUBGLOBOSA UMBILICATA	UMBILICATE ROCKSNAIL	38	
A GENICULATA FULIGINOSA	GENICULATE RIVER SNAIL	C2	
A GENICULATA PINGUIS	SMALL GENICULATE RIVER SNAIL	3C	
EMA GIBBERUM	CUMBERLAND PIGTOE	LE	E
A ACUTIFLORA	SHARP-SCALED MANNAGRASS		S
ATES			
OMA LUTEOVINCTUM	REDBAND DARTER		D
S RUPESTRIS	BEDROCK SHINER		D

DESCRIPTION OF ENDANGERED OR THREATENED SPECIES DATA BASE LISTING

The following list defines species record occurrences for natural areas or special habitats for the various quad maps or data bases searched for potential project impact. The list includes Site name, Species name, and name of the Quad map where species record is found.

PAGE	1_			12:53:41	21 APR	1995
MANGAU(E:	SCOMNAME:	SNAME:			

CARDWELL MOUNTAIN REDBAND DARTER CUMBERLAND PIGTOE CARDWELL MOUNTAIN CARDWELL MOUNTAIN UMBILICATE ROCKSNAIL GENICULATE RIVER SNAIL NIATRUC CAR SMALL GENICULATE RIVER SNAIL CARDWELL MOUNTAIN CARDWELL MOUNTAIN

SHARP-SCALED MANNAGRASS

BEDROCK SHINER

SMALL GENICULATE RIVER SNAIL

ACMINNVILLE SMALL GENICULATE RIVER SNAIL ETHEOSTOMA LUTEOVINCTUM

PLEUROBEMA GIBBERUM

LEPTOXIS SUBGLOBOSA UMBILICATA

LITHASIA GENICULATA FULIGINOSA

LITHASIA GENICULATA PINGUIS

GLYCERIA ACUTIFLORA

NOTROPIS RUPESTRIS

LITHASIA GENICULATA PINGUIS

LITHASIA GENICULATA PINGUIS

3 Records Processed

4CMINNVILLE

ACMINNVILLE

HABITAT INFORMATION FOR ENDANGERED SPECIES AND CRITICAL OR SENSITIVE HABITAT

The following habitat description has been retrieved from a national data base for the purpose of scientific field review and population determinations. The following species are found within the Barren Fork River watershed. There is a record of the listed species adjacent to the PPE outfall, were several mussel populations are known to occur.

Lithasia geniculata pinguis, Small Geniculate River Snail:

This species is similar to other small snails found within the Cumberland and Tennessee River systems. Because the habitat for the animal species listed is very specific, please request further information from our zoologist, Mr. David Withers, in our office in Nashville. He may be reached by telephone at 615/532-0431.

We have listed similar species habitat information for comparison.

- LITHASIA ARMIGERA*According to Sickel (1988), C. ARMIGERA was found in the Cumberland River in
 the following habitats: In partially buried logs, on gravel, and the species was found at its highest densities on
 submerged rock outcrops.**
- LITHASIA DUTTONIANA*Occupies rocky substrate in riffle systems. Have found it on bedrock in flowing water below main section of riffle in Duck River.**
- LITHASIA JAYANA*Nothing specific has been published for this species. Probably occurs in the vicinity of riffles in flowing water in coarse particle substrata (i.e., cobbles, boulder, bedrock)**
- LITHASIA LIMA*Appears to inhabit rocky substrates in riffle systems (Bogan and Parmalee, 1983).**
- LITHASIA SALEBROSA*Found in the tailwater areas of dams. Sometimes found attached to logs. (Conrad, 1834)**
- LITHASIA VERRUCOSA*It inhabits rocky shoals and riffles in moderate current velocities in depths from near the water surface to several feet (approximately 3 ft).**



TENNESSEE RIVERS ASSESSMENT DATA (April 11, 1995) Re: Division of Superfund request for Cumberland Lumber Company, Warren County Project

RIVER	N/SQ	BOATING	MANAGEMENT
BARREN FORK RIVER			
Hickory Creek to Collins River	67	48	
COLLINS RIVER			
Barren Fork River to Charles Creek	80	62	NRI

TENNESSEE RIVERS ASSESSMENT PROJECT

\$CORE CODES FOR RESOURCE CATEGORIES

Natural and Scenic (N/S) Qualities (Total of 125 Points)

SCORE	<u>POINTS</u>	INTERPRETATION
Type I	>90 Points	Statewide or Greater Significance
Type II	>60 Points	Regional Significance
Type III	>30 Points	Local Significance
Type IV	<30 Points	More Information Needed

Recreational Boating (Total of 100 Points)

SCORE	<u>POINTS</u>	INTERPRETATION
Туре І	>75 Points	Statewide or Greater Significance
Type II	>50 Points	Regional Significance
Type III	>25 Points	Local Significance
Type IV	<25 Points	More Information Needed

NRI, National Rivers Inventory Listing

PAGE 1

13:18:55 21 APR 1995

COLLING STATE SCENIC RIVER

COLLINS STATE SCENIC RIVER

COLLING STATE SCENIC RIVER

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COLI .ATE SCENIC RIVER

COLLINS

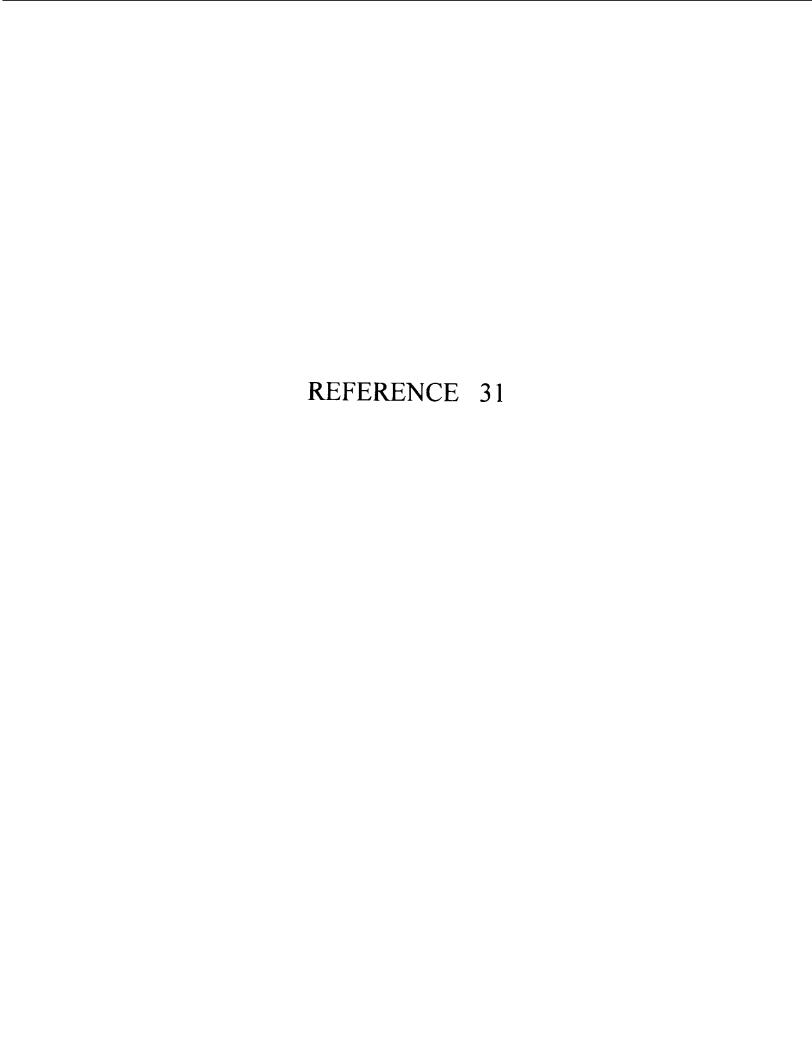
AANAME.....QUADNAME:....

ALTAMONT

IRVING COLLEGE

CARDWELL MOUNTAIN

4 Records Processed



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

OFFICE CORRESPONDENCE

DATE: 4/28/95

TIME: 0830

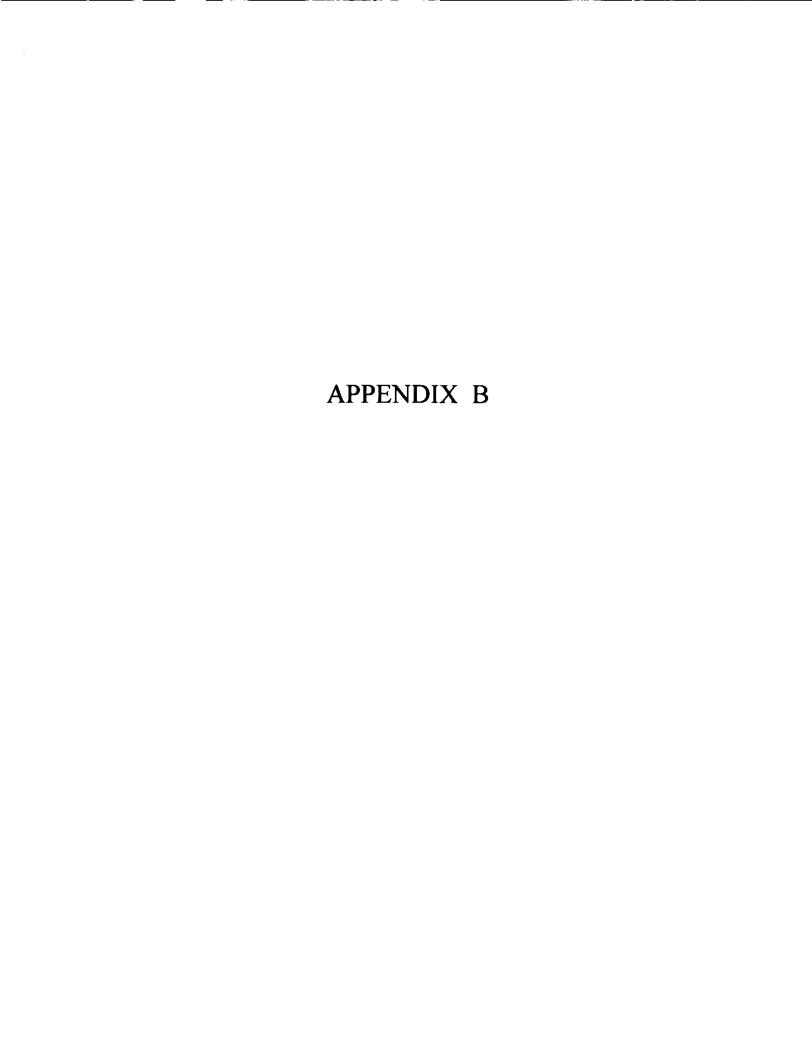
TO: DSF Files

SUBJECT: Flood plain information

FROM: John Kizer

RE: Cumberland Lumber Co. 89-506

Phone conversation with Assessor of Properties McMinnuil	1/e ;
Cumberland Lumber Co. site was verified not to be in	
flood plain by flood plain map 47-177-C-0090.	
John Kyr 4/28/95	
John Kinjer 4/28/95	
,	
· .	
	



OMB Approval Number: 2050-0095 Approved for Use Through: 4/95

Site Name: Cumberland Lumber Company

CERCLIS ID No.: TND004040663 Street Address: 202 Red Road

City/State/Zip: McMinnville, TN 37110

Investigator: John Kizer

Agency/Organization: TN Division of Superfund Street Address: 537 Brick Church Park Drive

City/State: Nashville, TN

Date: 05/01/95

DRAFT

STATE OF THE PRELIMINARY SCORE NOT THE OPINION OF U.S. EPA

Page: 1

'E CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 Abandoned Drums Drums

Ref: 2,6 WQ value maximum

Volume

8.00E+00 drums

8.00E-01 8.00E-01

STATE OF THE PRELIMINARY SCORE NOT THE OPINION OF U.S. EFA

** Only First WC Page Is Printed ** | Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List Suspected Release Are sources poorly contained? (y/n/u) Y Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)Y Is waste quantity particularly large? (y/n/u)N Is precipitation heavy? (y/n/u) Y Is the infiltration rate high? (y/n/u)Y Is the site located in an area of karst terrain? (y/n)Y Is the subsurface highly permeable or conductive? (y/n/u) Y Is drinking water drawn from a shallow aquifer? (y/n/u) N Are suspected contaminants highly mobile in ground water? (y/n/u)V Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u) Y ther criteria? (y/n) SUSPECTED RELEASE? (y/n)

Summarize the rationale for Suspected Release:

In January 1994 the Tennessee Division of Underground Storage Tanks sampled Red Spring and found it to be contaminated with hydrocarbons and solvents. The source for contamination of Red Spring is unknown; therefore, it could not be included under Waste Characteristics. The drums are not expected to have caused ground water contamination.



Page: 3

Ground Water Pathway Criteria List Primary Targets	
Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	N
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? $(y/n/u)$	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? $(y/n/u)$	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n) N	
PRIMARY TARGET(S) IDENTIFIED? (y/n)	N

mmarize the rationale for Primary Targets:

No wells are expected to be contaminated.

STATE OF THE PRELIMINARY SCORE NOT THE OPINION OF U.S. EPA

Ref: 8,10,13

Page: 4

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GROUND WATER PATHWAY SCORESHEETS

hway Characteristics				Ref
Do you suspect a release? (y/r	1)	Y	es	
Is the site located in karst t	errain? (y/n)	Y	es	10
Depth to aquifer (feet):		1	0	10
Distance to the nearest drinki	ng water well	(feet): 9	504	8,1
				-
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refere	nce:
1. SUSPECTED RELEASE	550	į		
2. NO SUSPECTED RELEASE		0		
LR =	550	1 0		
gets				-
ARGETS	Suspected Release	No Suspected Release	Refere	nce
3. PRIMARY TARGET POPULATION 0 person(s)	0			
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	0		
5. NEAREST WELL	0	0		
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0		
7. RESOURCES	5	0		
T =	5	0		
TE CHARACTERISTICS				
THE CHARACTERRISTICS			- !	

Page: 5

nd Water Target Populations

Primary Target Population Drinking Water Well ID	Dist.	Population Served	Reference	Value
None				
		, , , , , , , , , , , , , , , , , , , 		
*** Note: Maximum of 5 Well	ls Are Pr	cinted ***	Total	

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0	}	0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	0		0
Greater than 2 to 3 miles	0		0
Greater than 3 to 4 miles	0		0
		Total	0

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Page: 6

rtionment	Documentation	for a	a I	Blended 	System
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	•				

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Page: 7

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? $(y/n/u)$	Y
Is rainfall heavy? $(y/n/u)$	Y
Is the infiltration rate low? $(y/n/u)$	N
Are sources poorly contained or prone to runoff or flooding? $(y/n/u)$	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? $(y/n/u)$	Y
Is vegetation stressed along the probable runoff path? $(y/n/u)$	N
Are sediments or water unnaturally discolored? $(y/n/u)$	N
Is wildlife unnaturally absent? $(y/n/u)$	N
Has deposition of waste into surface water been observed? $(y/n/u)$	N
s ground water discharge to surface water likely? $(y/n/u)$	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

Surface water contamination is not expected due to the distance to the Primary Point of Entry and the large amount of dilution from the Barren Fork River.

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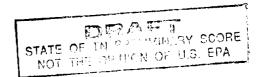
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Page: 8

Surface Water Pathway Criteria List Primary Targets	
Is any target nearby? (y/n/u) If yes: N Drinking water intake Y Fishery Y Sensitive environment	Y
Has any intake, fishery, or recreational area been closed? $(y/n/u)$	N
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? $(y/n/u)$	N
Does any target warrant sampling? (y/n/u) If yes: N Drinking water intake N Fishery N Sensitive environment	N
Other criteria? (y/n) N	
PRIMARY INTAKE(S) IDENTIFIED? (y/n)	N
Summarize the rationale for Primary Intakes:	
Surface water contamination is not expected and all surface water intakes are located upstream of the Primary Point of entry.	

Ref: 1,2,8

continued -----



Page: 9

continued
Other criteria? (y/n) N
PRIMARY FISHERY(IES) IDENTIFIED? (y/n)
Summarize the rationale for Primary Fisheries:
Although the Barren Fork River and Collins River are fisheries they are not expectd to be contaminated from the Site due to the distance to the Primary Point of Entry and the large amount of dilution.
Ref: 2,7,8
Xe1: 2,7,0
Other criteria? (y/n) N
PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N
Summarize the rationale for Primary Sensitive Environments:
Collins River is a State Scenic River but it is not expected to be contaminated from the Site due to the large amount of dilution.

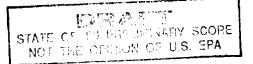
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Page: 10

SURFACE WATER PATHWAY SCORESHEETS

athway Characteristics				Ref.		
Do you suspect a release? (y/n) No						
Distance to surface water (feet	t):	1	900	2,10		
Flood frequency (years):		>.	500	31		
a. the nearest drinksb. the nearest fisher	What is the downstream distance (miles) to: a. the nearest drinking water intake? b. the nearest fishery? c. the nearest sensitive environment? 3.8					
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences		
1. SUSPECTED RELEASE 0 0						
2. NO SUSPECTED RELEASE 500						
LR =	0	500				



PA-Score 2.1 Scoresheets

Cumberland Lumber Company - 05/01/95

king Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Bod	y Type/Flow	Population Served		 Value
None	<u> </u>			İ		
	<u> </u>					
· · · · · · · · · · · · · · · · · · ·	Tot	al Primary	Target Popu	lation Value	•	0

Total Secondary Target Population Value 0

*** Note: Maximum of 6 Intakes Are Printed ***



Page: 11

Page: 12

<u>(</u>	rtionment	Documentation	for	a Blended	System
		·			
					}

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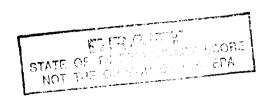
n Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	12	
T' =	0	12	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Barren Fork River	N	>100-1000 cfs	8	12
2 Collins River	N	>1000-10000 cfs	7,8	12
	-		+ 	+
	!		+-	
	-		+ -	 -
	-		+-	+
	Total	Primary Fisheries Val	ue	0
*** Note : Maximum of		. Secondary Fisheries V Are Printed ***	alue	0

*** Note: Maximum of 6 Fisheries Are Printed ***



Page: 13

Page: 14

ronmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	10	
T =	0	10	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)		Ref.	Value
1 Collins River	N	>1000-10000 cfs	7,30	0
Total Primary Sensitive Total Secondary Sensitive				0
*** Note: Maximum of 6 Sensi			* *	



PA-Score 2.1 Scoresheets

Page: 15 Cumberland Lumber Company - 05/01/95

ace Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score		Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	18	1
Human Food Chain	500	12	18	1
Environmental	500	10	18	1

SURFACE WATER PATHWAY SCORE: | 3 |



Page: 16

Soil Exposure Pathway Criteria List Resident Population	
Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	Y
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	N
Other criteria? (y/n) N	
RESIDENT POPULATION IDENTIFIED? (y/n)	N
Summarize the rationale for Resident Depulation:	

Summarize the rationale for Resident Population:

Contaminants no longer appear to be entering the intermittent stream in significant amounts and since the contaminants of concern are volatiles previous contamination has probably dissipated. Additionally, the nearest residence is 400 feet downstream.

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Ref: 2,4,24

Page: 17

SOIL EXPOSURE PATHWAY SCORESHEETS

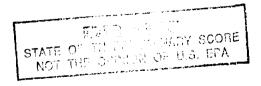
Pathway Characteristics				Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)				2,24
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)				2
Is the facility active? (y/n):			No	2,24
LIKELIHOOD OF EXPOSURE	Suspected Contamination	References		
1. SUSPECTED CONTAMINATION LE =	550 			
argets				
2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	16,24		
. RESIDENT INDIVIDUAL	0			
4. WORKERS None	0	2,24		
5. TERRES. SENSITIVE ENVIRONMENTS	0			
6. RESOURCES	5			
T =	5			
STE CHARACTERISTICS				
WC =	18			
SIDENT POPULATION THREAT SCORE:	1			
ADDY DODII AMION MUDDAM COORD.				
EARBY POPULATION THREAT SCORE:	1			g and representation
Population Within 1 Mile: 1 - 10,0		STATE OF	ENTER PREI	
NE DEPOSIDE DIMININE GOODS		I MOL IT		

SOIL EXPOSURE PATHWAY SCORE:

Page: 18

Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None	 	+
	i	İ
	i	İ
	- 	!
	- 	 +
	 -+	 +
	İ	
Total Terrestrial Sensitive Environments Are Pr	ments Value	+ -



Page: 19

Air Pathway Criteria List Suspected Release	
Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

During the initial complaint investigation there was a strong odor immediately adjacent to Red Spring; however, the odor is no longer present and the nearest individual is approximately 350 feet away and would not be affected.

Ref: 2,4



Page: 20

AIR PATHWAY SCORESHEETS

athway Characteristics			•	Ref.
Do you suspect a release? (y/n))	No)	+
Distance to the nearest individ	dual (feet):	35	50	+ 2
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refei	cences
1. SUSPECTED RELEASE	0			
2. NO SUSPECTED RELEASE		500		
LR =	0	500		
rgets				
TARGETS	Suspected Release	No Suspected Release	Refe	ences
3. PRIMARY TARGET POPULATION 0 person(s)	0			
4. SECONDARY TARGET POPULATION	0	58		
5. NEAREST INDIVIDUAL	0	20		
6. PRIMARY SENSITIVE ENVIRONS.	0	! !		
7. SECONDARY SENSITIVE ENVIRONS.	0	0		
8. RESOURCES	0	5		
T =	0	83		
STE CHARACTERISTICS -				
WC =	0	18	-	
			.	
R DATHWAY SCORF:		a I	•	

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	- RARY SCORE
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Page: 21

Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0	2,24	0
Greater than 0 to 1/4 mile	1182	9	41
Greater than 1/4 to 1/2 mile	1232	9	9
Greater than 1/2 to 1 mile	2110	9	3
Greater than 1 to 2 miles	7893	9	3
Greater than 2 to 3 miles	3770	9	1
Greater than 3 to 4 miles	1006	9	1
	Total Secondary Popula	ation Value	58

Page: 22

Pathway Primary Sensitive Environment	Ĩ.	Pathway	Primary	Sensitive	Environments
---------------------------------------	----	---------	---------	-----------	--------------

Sensitive Environment Name	Reference	Value
None		
	·	,
		 + -
		+

Total Primary Sensitive Environments Value

*** Note: Maximum of 7 Sensitive Environments Are Printed***
Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Dist	ance R	eference	Value
None				
	j	j		
	İ			
		<u> </u>		
	, 			
	<u> </u>		 	
		<u> </u>		
Total Secondary Ser	nsitive Fnv	ironment	s Value	

STATE OF U.S. EPA

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	1
SURFACE WATER PATHWAY SCORE:	3
SOIL EXPOSURE PATHWAY SCORE:	2
AIR PATHWAY SCORE:	9
SITE SCORE:	5



Page: 23

Page: 24

SUMMARY

 Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

- 2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
 - A. Drinking water intake

No

B. Fishery

No No

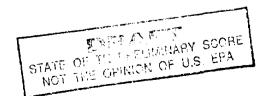
C. Sensitive environment (wetland, critical habitat, others)

If yes, identity the target(s).

- 3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No
 If yes, identify the properties and estimate the associated population(s)
- 4. Are there public health concerns at this site that are not addressed by PA scoring considerations?

No

If yes, explain:

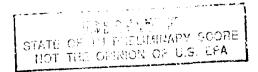


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- John Kizer, TDSF. "Trip Report": Cumberland Lumber on/off-site reconnaissance & records search. April 24, 1995.
- Tim Stewert, TDSF. New Site Discovery Information. Cumberland Lumber Company. May 17, 1994.
- 26. Tim Stewert, TDSF. Phone conversation with Ray Spivey Jr. of Cumberland Lumber Company. Subject: Drums at 202 Red Road. March 24, 1994.

- 27. Tim Stewart, TDSF. Phone conversation with John Jackson of Cumberland Lumber Company. Subject: Drums at 202 Red Road. June 30, 1994.
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- John T. Weakley, TDSF. Correspondence to Brenda Apple, TDSF. Subject: Threatened and Endangered Species for Cumberland Lumber Company, 89-506. April 26, 1995.
- John Kizer, TDSF. Phone conversation with Assessor of Properties Office McMinnville, Tennessee. Subject: Flood plain information. April 28, 1995.



TRIDOC4040663

CERCLA

CHENCE STORE

NEW SITE DISCOVERY INFORMATION

TN# 89-506

Date: May 17, 1994

Name of Person

Completing SD Report: Tim Stewart

Site Name: Cumberland Lumber Co.

Site Address: 202 Red Road

Disc Date (1/21/94)

County: Warren

Caty: McMinnville

Zip Code: 37110

Latitude: 35/41/15/

Size of site: 350' x 300'

Longitude: 85 / 45 / 45 /

Quadrangle: Mcminnville

General Description of Site: Old abandoned buildings, 9 visible drums - some bulging some unsealed, old foundations of two additional buildings, Red Spring behind buildings (see photos) presently used for storage.

Site Status: _____ Active ___ X Inactive RCRA Facility? ____ yes _X _no

Years of Operation 1962 to current

Waste believed present and quantities: Toluene, TCE, Benzene, 1, 1-DCA, 1,1-DCE, Xylene, Ethyle Benzene (see sample results)

Brief description of potential hazard: Spring has strong odor and flows through a residential area into Barren Fork River

CERCLA

NEW SITE DISCOVERY INFORMATION

Site Owner: Cumberlar	id Lumber Co.	Site Ope	erator:	
Address: 202 Red Road	1	Address:		
City: McMinnville, Th	1	City:		
Phone (615) 73-9542	Zip 37110	Phone () ·	Zip
Other resp. parties:		Inform	ation obta	ined from:
Address:		Address:		
City:	T:-	City:	,	Zip
Phone ()	Zip	Phone (. 1	21p
TDSF Contact: Tim Ste	ewart	Phone ((615) 741-7	391
Site Contact: Ray Spi	very Jr.			
Address: same as owner	er			
City: Phone ()	State	Zip		
Comments:				

PLEASE ATTACH A COPY OF THE TOPO MAP WITH THE SITE CLEAFLY MARKED. RETURN THIS TO THE PA/SI PROGRAM-SUPERFUND SECTION-CENTRAL OFFICE.

SDTIM1.doc

RCRA/NPL POLICY QUESTIONNAIRE FOR INITIAL SCREENING

Site Name: C	Lumberland Lumber (Co.		
City: Mc Min	unville, TN	State: TN		
EPA I.D. Numb	per: Not Applicable to	o this parcel		
Type of Facil	.ity: Generator	Transporter	Disposa	1
	Treatment	Storage (more th	an 90 days)	
I. RCRA APPLI	CABILITY		Yes	No
	lity treated, stored, s waste since Nov. 19	— — — — — — — — — — — — — — — — — — —		
Has a RCRA Fa on this site?	cility Assessment (RF	A) been performed		
	lity have a RCRA oper			
Did the facil If so:	ity file a RCRA Part	A application?		
1. Does 2. Did t	the facility currentl the facility withdraw te facility a known or ?	its interim status?		
· ·	ty a late (after Nov. s been identified by			
STOP HEI	RE IF ALL ANSWERS	TO QUESTIONS IN SE	CTION I AF	RE NO
II. FINANCIA	L STATUS			
	ty owned by an entity der Federal or State			
III. RCRA ENF	ORCEMENT STATUS			
	ity lost authorizationtatus revoked?	n to operate or had		
Has the facil	ity been involved in ction?	any other RCRA		

